State Veterans Home

Palmer Pioneer Home Conversion
Palmer, Alaska
April 19, 2004



Prepared for:
Alaska State Legislature
Legislative Budget and Audit Committee
Juneau, Alaska 99811



INDEX

Introduction	i
Facility Condition Survey Report	1-27
Photographs	.Appendix A
Cost Estimate	.Appendix B
10% Concept Design	Appendix C
McDowell/Health Dimensions Group Transition Plan	Appendix D

Introduction:

This document includes a Facility Condition Report for the Palmer Pioneer Home, cost estimate for work recommended to upgrade the facility, 10% Concept Design for the work, and the Transition Plan and Needs Analysis for the facility. This study is the first step to convert the Palmer Pioneer Home into a State Veterans Home.

The Facility Condition Survey has a series of items noted in the description of the building. Each item has a condition rating between 1 and 9. These ratings are explained at the bottom of each survey page. Generally, items with a rating of 4 or less were included in the cost estimate for renovation of the Palmer Pioneer Home.

The 10% design documents are intended to indicate the general scope, intent, and location of the work to be undertaken on the site and in the building.

The Transition plan is a study of the methods by which the State of Alaska can make the conversion of the Palmer Pioneer Home into the State Veteran's Home.

ASCG, INC. Page 1 OF 27

FACILITY NAME: Palmer Pioneer Home

EVALUATOR (S): Architecture: Ron Bissett, RA: Structural: Ruth Coleman, PE; Mechanical: Eric Jensen, PE; Electrical: Wojciech Rosiecki, PE

Number	Building Component	Rating	Comments/Concerns/Problems
1.0	SITE		
1.1	SITE GENERAL		
1.2	SITE SYSTEMS		
1.2.1	SITE CIRCULATION		The site was covered with ice and snow and the condition of pavement could not be determined.
1.2.1.1.	Do vehicular roadways provide adequate access and circulation? Provide a general rating for roadways and parking lots. Describe problem areas.	5	Staff indicated that some sections of the sidewalks need to be replaced and that the parking lot needed to be regraded and repaved. The entry sidewalk is not covered, 80 feet long, and covered with ice. The walk needs to be heated or covered.
1.2.1.2	Rate the condition of pedestrian ramps, steps and sidewalks.	5	
1.2.1.4	Is outside security and safety adequate with respect to: - outside lighting Yes □No ☒ N/A □ - fencing, gates Yes ☒No □ N/A □ - barriers, kiosks Yes ☒No □ N/A □ - signage Yes ☒No □ N/A □	4	Outside luminaries are provided with 250 W, HPS. Do not provide adequate and uniform illumination through out the parking lot.
1.2.2	LANDSCAPING		
1.2.2.1	Are patios, terraces, fire lanes and similar hard surfaced areas in good condition? Yes □ N/A □ No ☒; 10 % require attention	5	Staff indicated that some hard surface walkways needed repair.
1.2.2.2	Are lawns, trees and shrubs in good condition? Yes \(\subseteq \text{N/A} \subseteq \text{N/A} \subseteq \text{No } \subseteq \; \text{weak require attention}	7	Staff indicated that the landscaping had been upgraded during the summer of 2003 and was in very good condition. Staff requested that the 5' wide gravel beds be continued around the building as it was not completed last summer.

ASCG, INC. Page 2 OF 27

Number	Building Component	Rating	Comments/Concerns/Problems
1.2.2.3	Are pavilions in good condition? Yes ⊠ N/A □ No □; % require attention	5	There area two pavilions on the property one is open air and the other is screened. The screens suffer wind damage every year and are in need of repair.
1.2.2.99	Are there any concerns with site furniture, such as: benches, waste receptacles, fountains, etc.? Yes \(\subseteq \text{ N/A } \subseteq \text{ No } \subseteq; \subseteq \text{ require attention } \end{array}		
1.2.3	ENVIRONMENTAL CONCERNS Is there fuel storage, toxic/hazardous products, sewage disposal, salt storage, reservoirs, ponds, vegetation, wildlife or pests which are a cause for special attention? Yes ⋈ No □N/A □	5	The facility has a 1000 gallon underground fuel storage tank.
1.2.4	SITE SERVICE DISTRIBUTION List any problems with utility service distribution outdoors including water/ sewer mains, gas lines, overhead wiring, car plugs, transformers, underground cables, etc.	5/6	The site is served by City of Palmer water and sewer. Site drainage is achieved with a storm drain system that outlets in drainage swales on the west side of the property where it surface drains off site. The Sunny Loop Wing courtyard has a yard drain which empties into a drywell. This facility is supplied with electrical power at 120/208 V, 3 Phase, 4 W, from a utility-owner pad mounted transformer located just outside the Electrical/Generator Room.
	OTHER CONCERNS Do you anticipate the need for any significant repairs, upgrade or replacement of any site related items in the next 5 years? If yes, describe briefly.		 Yes ⊠ No □ Site lighting should be upgraded (staff feels existing lighting is adequate). Head bolt heaters plug ins should be repaired and/or upgraded, replaced. Repair walks, re-grade parking lot as required, and repave parking lot. Construct a fence along the east property line. Complete gravel landscaping at building. Create pave approach to the supply room from parking and to the new storage building.

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 3 OF 27

Number	Building Component	Rating	Comments/Concerns/Problems
2.0	DITH DING		
2.0	BUILDING BUILDING GENERAL		
2.1	BUILDING GENERAL		
2.2	BUILDING SYSTEMS		
2.2.1	STRUCTURE		
2.2.1.1	Identify and rate any problems such as cracking, sinking, deflection associated with the foundations, slabs on grade, columns, walls or roof elements.	5	FOUNDATIONS appear to be in good condition there was no evidence of settling of main foundation. The center of the corridor in the Fireweed wing has differentially settled in the past, but is now stable. The floor has a slightly sloped surface just west of the small dining room. CMU Wall footings are continuous 16 inches wide and 8 inches deep. Pipe Tunnels 64 inches width and 40 inch height are part of the foundation system enclosing the perimeter of the building. The exterior walls are fully grouted CMU.
		7	EXTERIOR WALLS – Concrete Masonry Walls fully grouted 8 inch wide Concrete Masonry Units with #5 rebar at 32 inches on center unless noted otherwise and Bond Beams at 4' on center vertically with 2 - #5 bars.
		7	INTERIOR CORRIDOR WALLS - 7x7 Glu-Lam Post with 3.5x3.5x3/16 HSS Struts and 7/8" diameter upset rod bracing and 2x4 staggered stud walls with ½ inch plywood nailed with 10d nails at 6 inches on center and 12 inches on center at intermediate supports. Designated walls in the corridor have 10d nails at 2.5 inches on center at panel edges and 12 inches on center at intermediate supports. There are 3.5 inch diameter post supporting Roof Glu-Lam Beams that frame together.
		7	FAN ROOM has an elevated concrete floor 9 foot above the first floor. The floor is a system with 6 inch slab and concrete beams 21x16. the slab is supported by 8 inch CMU walls
		6	ROOF SYSTEM is Glu-Lam beams and 3x6 tongue and groove deck. The deck is fastened to the shear walls with 40d nails at 6 inches on center. There are notched beams as detailed on the design drawings which appear to have no problems with splitting.

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 4 OF 27

Number	Building Component	Rating	Comments/Concerns/Problems
2.2.2	ENVELOPE		
2.2.2	ENVELOIE		
2.2.2.1	ROOFING		
	MEMDD AND TYPES		
	MEMBRANE TYPES □ standard asphalt & gravel □ protected membrane □ shingles □ metal □ S.B.S. □ OtherEPDM membrane When was the roof last inspected? 5 years ago.	7	The building has a mix of roofing types, but the dominant roof is a low slope with metal roofing with a heat traced gutter system and dense snow guards. The metal roof and flashings were replaced 15 years ago over a new EPDM membrane. The approximate metal roof area is 45,000 S.F. The remaining roof type is flat with an EPDM membrane over sloped insulation. The flat roofs drain to the gutter system. These roofs were replaced 5 years ago and comprise about 15,000 S.F.
2.2.2.2.	WALLS Cladding type is: ☑ Masonry ☑Wood □ Concrete/Pre-Cast □ Stucco □ Metal □ Curtainwall □ Other	5	The exterior walls are a mixture of exposed CMU and T1-11 siding. Staff indicated that T1-11 siding in poor condition was replaced about two years ago. There are still problems with the siding such as at the base of windows where it is warping away from the building due to water damage. T1-11 siding is not a good use in this application.
	Do the walls show evidence of: ☑ Movement?/ Deformation / Cracks ☐ Deterioration of Caulking ☐ Dampness, wet spots, rotting ☐ Efflorescence ☐ Flashing deficiencies ☑ Air or water leakage ☐ Other ☐ None of the above	5	There is some cracking and deformation, but nothing out of the ordinary for a building of this age. Three spots in the building show signs of water damage all below a complicated roof flashing area.
2.2.2.3	WINDOWS Frame material: □ Aluminum □ Wood □ Steel □ Other - Vinyl Type: □ Curtainwall □ Strip (i.e. wide; uninterrupted by cladding)	4	The facility has a mixture of Pella and Anderson wood and True vinyl windows both operating and fixed units. Staff reports both window types have ongoing operator replacement needs, which would be normal in windows of this age. Wood windows show signs of deterioration at the sills. Clerestory windows on the south side of the building are subject to the effects of drifting snow. It was not possible to inspect the windows up close, but they were recommended for replacement

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 5 OF 27

Number	Building Component	Rating	Comments/Concerns/Problems
	□ Sliders		
	⊠ Individual		
	□ Storefront		
	Glazing:		
	☐ Single		
	□ Double sealed units		
	Other		
	Performance:		
	Do windows have significant	6	Staff continues to replace window operators as required. Wood
	problems with:	0	windows are showing signs of deterioration of the exterior finish
	☐ Icing		and wood structure. Many windows are difficult to operate. With
	☐ Condensation		proper maintenance the windows are acceptable.
	☐ Air leakage		
	☐ Water leakage		
	☑ Finish deterioration		
	⊠Structural deterioration		
2.2.2.4			
2.2.2.4	DOOKS & OF ENINGS	4	Exterior doors are metal some with relites with single glazing.
	Material:		Some have weather stripping problems evidenced by towels
	□ Aluminum		stuffed at the base of the door. Typically, exterior doors are 4'x7'
	⊠ Wood		(whether single or double) and none have ADA automatic
	⊠Steel		openers. Doors exceed the ADA required pressure to open. The
	□ Other		buildings main entry should have a covered approach.
			Doors on the south side of the building must be kept clear of
	Type:		drifting snow to operate.
	⊠ Man (m?)		uniting one is to operate.
	☐ Overhead Wood (m?)		
	☐ Overhead Metal (m?)		
	□ Other		
	(m = m ata mi = a d.)		
	(m = motorized)		
	Performance:		
	Do any of the doors have		
	significant problems with:		
	⊠ Hardware		
	⊠Seals, weather-stripping		
	⊠Icing		
2.2.2.5	SPECIAL FEATURES		
		5	A green house addition has been added on the south side of the
	Skylights:		Homestead wing at Room N-02.
	☐ Bubble units		
			The clerestory windows along the residential wing corridors that
	Do ony algebrate have significant		run east west have a problem with snow drifting. The windows
	Do any skylights have significant problems with:		can be completely covered with snow for much of the winter.
	Water leakage		
	water reakage		

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 6 OF 27

Number	Building Component	Rating	Comments/Concerns/Problems
	☐ Air infiltration ☐ Heat loss ☐ Excessive solar gain ☐ Condensation ☐ Other ☐ Identify and rate other exterior building elements which have problems i.e. balconies, soffits, shading devices, porches		
	OTHER CONCERNS Do you anticipate the need for any significant building envelope related repairs, upgrading or replacements in the next 5 years? If yes, elaborate.		 Yes No □ Build a roof over the entry sidewalk. Rebuild and repair the areas of the roof that are leaking (re-slope and re-roof as required). Replacing all original windows is suggested. Re-glaze the Solarium with low heat gain tempered glass Install a small overhead door in the new supply room and wall off a new entry that allows staff to access the bathrooms in that area. Install low maintenance finish over T1-11 siding. Replace all exterior doors with insulated double glazed doors with ADA operators. Create a new detached storage building
2.2.3	INTERIOR		
2.2.3.1	INTERIOR CIRCULATION Identify and rate any significant problems with congestion, circulation, etc., in stairs, corridors, etc. Does the building have?: □ passenger elevators # □ conveyors # □ N/A	4	The main circulation problem is at the main entry doors that do not have ADA operators and are very difficult to open. Also, deliveries presently enter the building at the existing loading dock on the east side of Windy Way and supplies must be carted all the way thru Sunny Loop to the new supply office and storage. Staff wants a new overhead door at the supply office to end the inconvenience to the residents.

ASCG, INC. Page 7 OF 27

2.2.3.2	PARTITIONS Rate the condition of interior walls and partitions in the fixed or load bearing in the f	6	Most interior partitions are in good shape. Accordion doors are used in several public areas to close off individual areas in the great room.
2.2.3.3.1 2.2.3.3.1 2.2.3.3.2	FINISHES Identify the type and rate the condition of interior finishes: FLOORS ⊠resilient flooring ⊠carpet □ other flooring WALLS	5	Carpet in the Cordova, Raven, and Fireweed wings is new Collins Aikman rubber back carpet. Staff reports this material is meeting their needs for resident comfort and maintainability. The carpet in the main entry and public areas is an older carpet that is stretching and bunching up in several areas and is not easy to maintain. This carpet is becoming a hazard and should be replaced. Flooring in the Windy Way, Homestead, and Sunny Loop wings is vinyl flooring reaching the end of its useful life. Painted walls and ceilings are in good repair and are repainted as
2.2.3.3.3	 ☑ painted walls ☑ other wall finishes CEILINGS ☑ painted ceilings ☑ suspended ceilings ☑ other ceilings T&G wood 	6	needed by maintenance staff. Ceilings vary between painted GWB and exposed T&G decking and are in good condition. The stone facing on the fireplace has loose stones, a danger in case of earthquake.
2.2.3.4	INTERIOR OPENINGS Identify and rate the condition of interior: ☑ doors ☑ frames ☑ glazing & sidelights ☑ hardware ☐ key system ☐ other openings	6	The closet and bathroom doors in some resident rooms are solid core pocket doors that are difficult to operate. These doors should be replaced or equipped with automatic openers.
2.2.3.5	INTERIOR CONCEALED SPACES Does the building have: ☐ attics? ☑ crawl spaces? ☐ ceiling spaces? Identify and rate any problems associated with the concealed spaces.	6	A utilidor (CMU and concrete), 4'h x 5'w runs around the entire building perimeter.

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 8 OF 27

Identify and rate any proble associated with special purpareas such as: freezers, cool computer rooms, saunas, powash bays, etc. FURNISHINGS & EQUIPMENT Identify and rate the conditi	ems pose lers, pols, 6 5 ion of: s	Resident rooms converted to spa's should have the base board increased. A greenhouse has been attached to the Homestead wing. Built in counters are generally in good shape. There is cable television service on the exterior of the building with cable run on the ground and on the roof over the entire building. This situation can be remedied by running the cable in the utilidor that runs around the perimeter of the building.
building ⊠Blinds/drapes □ Projection screens, ot equipment	her 4	Blinds in the solarium are not adequate to handle heat build up in the summer months in the public areas.
Do you anticipate the need significant repairs, upgrareplacement of interior finithe next 5 years? If yes, ela	ade or ishes in	 Yes No Provide ADA bathrooms in the public area. Replace old carpet in the public areas and in 4 Raven wing rooms, 6 Cordova wing rooms, and 6 Fireweed rooms. Replace vinyl flooring with rubber backed carpet in Windy Way, and Sunny Loop. Replace the carpet in the Sun room of Homestead wing with vinyl flooring. Create a winter garden area outside the Sun room of the Homestead wing. Install automatic door openers on resident rooms with the heavy pocket doors. Create more storage areas for maintenance and housekeeping in each wing. Create storage areas for residents. Remove the wall between the main dining room and the meeting room and install an operating partition to allow the meeting room to be used as dining area on special occasions. Create a wash down room with a pressure hose and floor drain. Secure stone facing on the fireplace. Create a reception area for added resident security. Create two office cubicles in the lounge area.

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 9 OF 27

MECHANICAL		
MECHANICAL SERVICES List any problems with utilities	7	Sanitary sewer service line blockage described in previous survey has been corrected. Problem was found under the main kitchen floor.
water, natural gas, sanitary / storm sewers within the building.	3	The 2" waste line serving the three main laundry washers is undersized. See Mechanical Photo Figure 1.
	2	The fuel oil supply and return piping has been disconnected from the boilers. The fuel oil storage tank monitoring panel is in high water level alarm. The generator day tank transfer pump must be manually primed, possibly due to a leak in the suction piping. See Mechanical Photo Figure 2.
	2	The generator room and main freezer are not covered by an automatic fire suppression system.
HEATING		
HEAT SOURCE Boilers Hot Water Joseph Steam Cow heat exchangers Forced Air Furnaces Unit Heater Other	2 3 2 5 5	Boiler B-2 is not operational. Numerous leaks in boiler room heating piping. Pipe insulation is in poor condition. Expansion tanks and air separator should be replaced. Fuel oil supply and return piping is disconnected from the burners. Boiler heating piping configuration is poor. See Mechanical Photo Figure 3. A common boiler control system does not exist, and there are no provisions for protecting the boilers against thermal shock. The boiler exhaust stack termination caps were recently replaced with exit cones. Now rain and snow can fall directly into the boilers. The stacks should be fitted with drain rings. B-1 & B-2: Original boilers. American Standard Model PFA-509 1,771 gas input MBH, 1,446 gross output MBH. B-3: Burnham Model PF-509, 1,771 gas input MBH, 1,446 gross output MBH. B-4: Newest boiler. Burnham Model V911A, 2,136 gas input MBH, 1,714 gross output MBH.
HEAT DISTRIBUTION Pumps, piping and valves	2	Pumps, piping and valves in the boiler room are in poor condition and there are numerous leaks. See Mechanical Photo Figure 4. Pumps, piping and valves not in the boiler room are in good condition. Leaks in the pipes and Victaulic couplings are rare.
TERMINAL UNITS Radiation / Coils / Convectors	3	The pedestal-type perimeter finned tube baseboards used throughout the facility are generally in fairly good condition. See Mechanical Photo Figure 5. However, they all have 1-1/4" tubes so they can not achieve the cataloged output due to very low water velocities. In addition, most of them utilize 1/2" branch pipes and flow balancing valves with no provisions for measuring flow. Many of the pneumatic control valves and thermostats are in poor condition.
	HEAT SOURCE Boilers Boilers C/w heat exchangers # C/w heat ex	MECHANICAL SERVICES List any problems with utilities such as: domestic or fire fighting water, natural gas, sanitary / storm sewers within the building. 2 HEATING HEAT SOURCE Boilers Boilers C/w heat exchangers # c/w heat exchangers # Other Other 5 HEAT DISTRIBUTION 2 Pumps, piping and valves 6 TERMINAL UNITS 3 **Comparison of the fighting water, natural gas, sanitary / storm samilar and sa

ASCG, INC. Page 10 OF 27

		4	Most of the spa rooms have radiant ceiling panels. The panels are in good condition but the temperature controls are poor.
		5	The hydronic unit heaters installed in storage rooms are in fair condition and have electric line-level thermostats.
		4	All entry vestibules have pedestal-type finned tube baseboards. VA design standards require forced air heaters. See Mechanical Photo Figure 5.
		3	The residential grade finned tube baseboards in the greenhouse are damaged and are a poor application. See Mechanical Photo Figure 10. Hydronic unit heaters would be a better choice.
		4	The heating coils in the smaller air handling units have excessive face velocity and air pressure drop. If better filtration is installed in the units the coils may have to be replaced. The coils are sized for 27-32% outside air under winter design conditions, which is in compliance with current codes for most areas in the building.
		4	All heating water flows should be balanced as part of the next major mechanical upgrades.
		2	In at least two restrooms in Sunny Loop, finned tube enclosures interfere with ADA water closet clearances. See Mechanical Photo Figure 19.
			Note that all terminal heating units have been sized for 200° F supply water temperature. VA design standards require 180° F maximum.
2.2.4.2.4	HEATING / BOILER WATER TREATMENT	5	No glycol in system. Water treatment is used but leaks in the boiler room will cause dilution.
2.2.4.3	VENTILATION & AIR CONDITIONING		
2.2.4.3.1	Types: ☐ Constant air volume #_6 ☐ Variable air volume #_ ☐ Other	4	AH-1, CF-1, HC-1, CC-1: (Note there are two airhandlers labeled AH-1 in the building.) Four zone multi-zone unit serving original building. One zone was modified to provide air to the kitchen, which is a poor application. Control dampers are the parallel blade type, which provide poor air volume control. The pneumatic controls are essentially inoperative and are currently being replaced with DDC controls by Johnson Controls. The multi-zone unit has a chilled water coil that has never been used. The as-built drawings indicate that the cooling coil was to be used with a dedicated cooling water well, which was never installed. Replace the roll media filter and electrostatic agglomerator with pleated media filters. The direct expansion (DX) cooling coil and condensing unit serving the kitchen was operating constantly with the outdoor temperature around 20° F. See Mechanical Photo Figures 6 and 7 for a typical built-up air handling unit.
1			

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 11 OF 27

		4	AH-1, CF-1, HC-1: Constant volume unit serving the Sunnyloop addition. Design capacity is 4,780 CFM. The heating coil is sized for up to 32% outside air during winter design conditions, but the coil has a face velocity of 682 feet per minute. The pneumatic controls are currently being replaced with DDC controls. Replace the roll media filter and electrostatic agglomerator with pleated media filters. The later dining room additions tapped into the supply air plenum.
		5	AH-2, CF-2, HC-2: Constant volume unit serving the east Fireweed Hall addition. Design capacity is 1,790 CFM. The heating coil is sized for up to 27% outside air during winter design conditions, but the coil has a face velocity of 596 feet per minute. The pneumatic controls are currently being replaced with DDC controls. Replace the roll media filter and electrostatic agglomerator with pleated media filters.
		5	AH-3, CF-3, HC-3: Constant volume unit serving the west Fireweed Hall addition. Design capacity is 2,340 CFM. The heating coil is sized for up to 27% outside air during winter design conditions, but the coil has a face velocity of 585 feet per minute. The pneumatic controls are currently being replaced with DDC controls. Replace the roll media filter and electrostatic agglomerator with pleated media filters.
		2	Laundry Room Air Handler: A small Pace air handling unit installed above the main laundry dryers provides makeup air and ventilation air to the laundry rooms. See Figure M8. The pneumatic controls are not fully operational and should be replaced with DDC controls. The mixing box damper linkage is disconnected and the outside air damper was observed to be oscillating between fully open and fully closed. A VFD is used to adjust the fan speed to 50% during the evening.
		2	Homestead Kitchen and Dining: A small Pace cabinet fan was installed in a closet to ventilate the mini kitchen and dining area. See Figure M9. Due to the supply registers' close proximity to the fan discharge, the system is loud and is never used. The noise problem may be corrected by installing additional ductwork and duct turns, but the fan is robbing air from the Sunnyloop supply air plenum.
2.2.4.3.2	CHILLERS / CONDENSERS Condenser: Air #1 Domestic water2 Water / Air # Cooling tower #	5	<u>Kitchen:</u> An air cooled condensing unit exists in the unheated attic space. The unit is coupled with the DX cooling coil that serves the main kitchen. The system was operating constantly with the outdoor temperature around 20° F, and it is rejecting warm air into the otherwise cold attic space. The compressors were recently replaced. The kitchen makeup air system should be replaced with a direct-fired makeup air unit if feasible.
	Other	FI	The two water-cooled condensing units serving the main freezer and cooler are installed in a small utility room adjacent to the freezer. The utility room does not have a refrigerant monitor. If the total of the refrigerant charges in the systems exceeds 6.6

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 12 OF 27

	2	pounds, the compressors will have to be installed in a suitable machinery room. This should be checked by a refrigeration contractor. Currently there are three refrigeration condensing units that utilize refrigerants R-22, R-409A, and R-502 to provide cooling for walk-in coolers. Under the Montreal Protocol, these refrigerants are scheduled for phase out in the near future. R-409A and R-502 contain R-22. There is no backflow prevention devices on the water connections to the refrigeration units located in the utility room and in the main cooler.
Ductwork, grilles, registers and diffusers.	3 4 7 2	Due to high solar gains, common areas like the alcoves and the solarium become very warm on clear days. In the original T-shaped part of the building served by the multizone unit AH-1, air is supplied through supply air ductwork. Some of the supply ductwork is buried beneath the floor slab, and the rest is concealed in soffits. The system uses the underfloor utilidor system as a return air plenum. In the Fireweed and Sunny Loop additions supply air is conveyed through the perimeter utilidor system, and return air is conveyed through buried return ductwork. Apparently the air distribution system has never been cleaned. Ceiling diffusers and sidewall-mounted supply registers in the original structure are fitted with adjustable extractors for volume balancing. The air outlets appear to be in generally good condition. Most of the floor-mounted linear bar registers used throughout the facility for supply and return applications are either severely damaged or clogged. See Figures M11 and M12. All bar registers should be either cleaned or replaced. (Maintenance is performing this work)
	4 4 2	All air distribution systems should be cleaned and balanced as part of the next major mechanical upgrades. The insulation on several of the outside air and exhaust air ducts is damaged and falling off. The insulation should be repaired and covered with lagged canvas jacketing. Due to tenant improvements, some enclosed occupied spaces are lacking ventilation. One example is the entry vestibule that was converted to a social worker's office.

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 13 OF 27

		2	The boiler room combustion air ductwork and ventilation system should be replaced. Some of the combustion air openings have been capped, and the ventilation fan is ineffective. See Figure M13. The roof access hatch in the boiler room is propped open.
2.2.4.3.4	HUMIDIFICATION Steam Boiler # Electric # Other Nozzle Media Other	4	All four main air handling units originally had steam humidification systems. The humidifiers have all been disabled but some components still exist in the fan rooms.
2.2.4.4	EXHAUST & MAKE UP AIR □ Washrooms □ Restrooms / bathrooms □ Smoke control □ Kitchen exhaust □ Fume hood(s) □ Other □ Dedicated make-up air: □ Gas-fired □ Heat Recovery □ Other	7 8 3 2 4	Most restrooms are exhausted by ceiling-type exhaust fans with local disconnect switch and remote fan speed control. Makeup air is provided by transfer from adjacent spaces. The fans appear to be in good condition, but one exhaust fan motor was being replaced during the survey. The fan motors have sleeve bearings, which are not suitable for continuous operation. The wash room, locker rooms and restrooms located between the maintenance shop and kitchen are exhausted by a common rooftop exhaust fan. Makeup air is provided by transfer from adjacent spaces. The kitchen hoods and rooftop exhaust fans were recently replaced. The code violations addressed in previous condition surveys have been corrected. The kitchen makeup air is being provided by zone #1 of the AH-1 multi-zone unit. A DX cooling coil is installed in the supply duct and the condensing unit was operating continuously with outdoor temperatures around 20° F. The kitchen should have a dedicated makeup air unit. The oxygen storage room is not properly ventilated. See Figure M14. The current storage room may be converted to a shipping area. A ventilation system should be provided for the maintenance shop and garage.
2.2.4.5	CONTROLS & ENERGY MANAGEMENT ☑ Pneumatic □ DDC ☑ Electric □ Other	7	The pneumatic control system is in poor operating condition. Many of the control panels are inoperative. Some of the air handling unit controls are currently being replaced by DDC. All other pneumatic controls should also be replaced. Low voltage thermostats and zone valves may be used in the resident rooms and common areas. The hydronic unit heaters are controlled by electric line-level thermostats.

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 14 OF 27

22451	ENERCY USACE &	2	The programatic control system is in poor energting condition and
2.2.4.5.1	ENERGY USAGE & MANAGEMENT List excessive use of energy by	2	The pneumatic control system is in poor operating condition and should be replaced with DDC. The controls should be programmed for economizer cooling and critical zone temperature reset.
	mechanical equipment, including operational problems and poor equipment controls.		The kitchen makeup air is being provided by zone #1 of the AH-1 multi-zone unit. A DX cooling coil is installed in the supply duct and the condensing unit was operating continuously with outdoor temperatures around 20° F. The kitchen should have a dedicated makeup air unit.
		5	Multi-zone unit AH-1 has the largest motors in the facility. The motors should be replaced with premium efficiency motors.
		3	The boilers are operating on their factory controls and do not have a common control system. DDC controls should be installed to maximize efficiency and to protect the boilers against thermal shock.
2.2.4.6	PLUMBING		
2.2.4.6.1	DOMESTIC WATER HEATER Type:	3	Two commercial grade gas-fired water heaters provide hot water to the majority of the building. A thermostatic mixing valve at the heaters is leaking and is severely corroded. The vent dampers
	☐ Steam ☐ Gas		have been disabled due to unreliable operation. See Figure M15.
	# <u>4</u>	2	The two gas-fired water heaters intended to serve the laundry area are leaking and are not operational. See Figure M16.
	#1_ Storage tank(s) Other		All gas-fired water heaters in the boiler room should be replaced with indirect-fired water heaters.
		8	An electric booster water heater serves the kitchen.
2.2.4.6.2	DOMESTIC WATER TREATMENT	8	A large water softening system was recently installed in the boiler room. See Figure M17.
	Describe any water treatment problems and associated reports.		
2.2.4.6.3	PIPES & FIXTURES Identify obsolete and/or defective items.	7	The majority of the domestic water mains and branch pipes were recently replaced with copper tubing. Some of the piping in the boiler room should be replaced with the water heaters.
	items.	7	Plumbing fixtures are generally in good condition and are repaired or replaced as needed.
2.2.4.6.4	BACKFLOW PREVENTION Is the building equipped with a	2	Refrigerator and freezer condensing units do not have backflow preventers on cold water connections. See Figure M24.
BFP on the incoming water and protected from fire fighting water? List any problems of cross		2	Numerous indirect waste pipes do not have proper air gap at floor sinks. See Figures M21 and M22.
	connection.	2	Food prep sink is connected directly to waste piping. No air gaps

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 15 OF 27

			or indirect wastes. See Figure M23.
		2	If the commercial dishwasher in the kitchen has a pumped discharge, the waste outlet needs to discharge into an indirect waste. See Figure M20.
		2	All four sprinkler risers do not have proper backflow prevention. Some have single check valves.
		2	The waste piping from the ice making machine has an improper vent opening on the drain line to the indirect waste. The air gap between the waste pipe opening and the rim of the indirect waste is insufficient.
		2	The indirect waste pipe for the ice making machine is too small should be a minimum 3/4".
		2	The vacuum breaker on the water supply line to one laundry washer is broken.
2.2.4.7	FIRE SUPPRESSION Sprinklers Wet	7	The facility is protected by a full coverage automatic fire sprinkler system. One of the risers is not readily accessible, but continues to pass inspections.
	☑ Dry □ CO ₂ □ Halon	2	The generator room and main freezer are not protected by an automatic fire suppression system.
	 ☐ Hose and standpipe ☑ Portable fire extinguishers ☐ Fire pump(s) ☐ Water reservoir(s) ☐ Other 	2	All four sprinkler risers do not have proper backflow prevention. Some have single check valves.
2.2.4.8	SPECIAL SYSTEMS		
2.2.4.8.1	EMERGENCY GENERATOR Image: Fuel Source Fuel Oil	3	The transfer pump on the generator's day tank must be manually primed. This may be due to a leak in the suction piping.
		2	The monitoring panel for the underground storage tank is in high water level alarm.
	120/208 Volts 521.1Amps ☑ Tested Monthly Date of last full load test:	4	The generator's control dampers are not a low leakage type and daylight can be seen through the dampers. See Figure M18.
	unknown.	6	150 KW Kohler generator w/600 amps 3P / 4W Kohler ATS. ATS lacks exerciser. (This could be regularly tested by maintenance)
2.2.4.8.2	WASTE DISPOSAL	6	The kitchen grease interceptor is reportedly in good working condition.
2.2.4.8.3	HOSPITAL / LAB SYSTEMS	2	The except starting room is not properly contileted
		2	The oxygen storage room is not properly ventilated.

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 16 OF 27

	Do you anticipate the need for any		Yes ⊠ No □
	significant mechanical systems related repairs, upgrading or replacements in the next 5 years? If yes, elaborate.		 Correct the generator transfer pump priming issue. Drain water from the underground fuel oil storage tank. Install automatic fire suppression in the generator room and main freezer. Replace remaining pneumatic controls with a combination of DDC and low voltage thermostats. Replace all boiler room heating piping, pumps, expansion tanks, air separator and valves. Install common boiler controls and provisions for protecting boilers from thermal shock. Repair or replace boiler #2. Possibly replace boiler #1 Install a dedicated kitchen makeup air unit. Provide corridor ventilation. Install a separate air handling unit for the Sunny Loop kitchen and dining areas. Provide proper ventilation for the oxygen storage room. Provide ventilation to unventilated occupied areas. Replace boiler room combustion air and ventilation systems. Replace all gas-fired water heaters. Provide backflow preventers and proper drainage air gaps at refrigerant condensing units and ice maker. Install double check backflow preventers on sprinkler risers. Replace the roll media filter and electrostatic agglomerator with pleated media filters.
2.2.5	ELECTRICAL		
2.2.5.1.	POWER & DISTRIBUTION	5/6	AV-line, GE switchboard w/molded case circuit breakers. Three (3) Sections. Lacks warning name plates.
	The incoming service is rated at: 120/208	5/6	One 1600/3 bolted fused switch constitutes the service disconnect for this facility. Multi-pole fused switches have one inherent problem. If an overload is sensed by a fuse and that fuse melts individually from the remaining 2, single phasing occurs. The loss of one phase in a 3 phase system results in elevated voltages on the remaining energized phases. The phenomenon is especially harmful to rotating equipment
			(motors) and other inductive loads. Failures, faults and damage can occur in the other 2 phases are not opened soon after losing the overload phase. In addition, in this facility, all of the feeders exiting the Main Service Equipment do so in the cable chase described on the next page. Inactive conductors lead to induced energy being developed in the active and inactive conductors with possible overheating of conductors and increased risks of a fire. Wires and cables seem to be type THW/XHHW and be of copper. In various parts of the facility, there were several cases of wires

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 17 OF 27

being left unterminated inside of enclosures and exposed outside of raceways or enclosures. Wire identifications and color coding is poor to nonexistent. Some wiring gutters appeared to have low voltage and high voltage conductors installed together (a NEC violation). Other gutters seemed to be overly filled with wires (also a NEC violation). These instances are in addition to the violation mentioned in the other paragraphs.

Some switches and their loads are not easily associated without operating the switch. Device plates in the garages and outside storage rooms. There were some other instances of damaged switches found in the building.

Receptacles are sparsely located throughout the facility. Even in areas like the Kitchen and Dining Rooms where one would expect to encounter numerous outlets, only a few widely separated receptacles are present. There are many extension cords in use. The concern is that these multiple outlet cords may be easily overloaded, since most non-technical people are unaware of the low continuous ratings of these cords have. Device plates appeared to be in reasonably good condition. There were a few cases where receptacles and/or device plates had been damaged. The greenhouse/nursery had normal receptacles adjacent to areas subjected to moisture and near where plants are watered. It is possible waterproof devices would better serve this area.

There are several instances where boxes, equipment, luminaries, devices and other electrical components are not adequately supported.

Conduits and raceways:

- 1. EMT and galvanized rigid steel conduits are used for most extensions from major distribution centers and panelboards. At some large centers of distribution (Main Distribution Equipment in the Electrical/generator Room and the Kitchen area particularly), field fabricated conductor "chase" have been installed to permit large volumes of conductors not in raceways exit from this equipment and transition to below the floor. Time and physical restraints prevented observation of what happened to these conductors once they disappeared from view. This type of installation is a major violation of the National Electrical Code and must be corrected. A single fault in one of these conductor chases will destroy a substantial number of feeders and could, conceivably, result in a fire which could be propagated below the floor of the building.
- Some motors and other vibrating equipment are connected to the power distribution system using EMT and/or galvanized rigid conduit. These rigid connectors should be replaced with flexible metallic conduit or liquid tight flexible conduit to mitigate vibration being transmitted to the structure.

ASCG, INC. Page 18 OF 27

	Branch circuit panelboards are the circuit breaker type (GE and Square "D"). In most cases they are flush mounted. In several installations at flush mounted panelboards, the trim does not close off contact with the panel's interior or wiring. There are gaps as wide as 1" in some of these installations. This situation compromises the dead-front nature of these panels and constitutes a NEC violation. These deficiencies must be corrected.
	In the access room above Fan Room #2, a panelboard is badly corroded due to leaking moisture from a duct which is located above the panelboard enclosure.
	Many panelboards were rendered inaccessible by stacking of equipment and other materials in front of them. In one case, what had once been a closet has been transformed into a small office and shelves had been built along the wall where the panelboard was recessed into the wall, completely rendering the interior inaccessible. All such instances constitute violation of the NEC and must be corrected.
	Several instances of more than one wire terminated under a lug approved for the termination of a single conductor were noted. This situation constitutes a violation of the NEC.
	There were some panelboards which were flush mounted in vestibules where alarm signs were posted indicating if the inner door of the vestibule was opened an alarm would sound. In the event of an electrical emergency in which circuits should be disconnected, these signs might be intimidating to all but the deeply indoctrinated. Perhaps moving the alarm to the outside door would prevent hesitation in situations where rapid decisions and action were required.
	There are no meters in this system other than the inaccessible utility revenue meter.
Describe the major components of the power distribution system (i.e. transformers, major distribution centers, motor control centers, etc.)	This facility is supplied with electrical power at 120/208 V, 3 Phase, 4 W, from a utility-owner pad mounted transformer located just outside the Electrical/Generator Room. From the transformer, an enclosed 1600 ampere bus duct runs through the electrical room wall, up to 14' above the floor and over to the service entry section of the Main Distribution Equipment lineup. After the service passes through the utility's current transformer (for utility revenue metering), the service entrance bus duct terminates at a single bolted fused switch. The electrical revenue meter was in a locked enclosure and, therefore, no readings could be taken. It is assumed this facility, like all the others reviewed, has significant capacity for additional electrical load.
	The service entry section of the Main Distribution Equipment was locked and sealed as part of the utility's revenue measurement equipment and therefore, the ground could not be directly observed. The design drawings called for the grounding at the pad mounted transformer, grounding at the Main Distribution Equipment and at the generator. At this time, it is assumed these

ASCG, INC. Page 19 OF 27

2.2.5.1.99	ENERGY PERFORMANCE This facility has: Load shedding equipment Power factor correction capacitors Co-generation equipment Adopted other energy reduction measures (describe)	2	installations were made and grounding of the electrical system is not a problem. The equipment appears to be in reasonably good shape. There is probably substantial capacity to accommodate additional loads if properly integrated into the existing system. A load survey should be made and loads shifted to other sources to remove the burden from this feeder. There is significant switchgear formerly serving snow melting cables that is now surplus and eligible for removal and reallocation. Motors, motor starters, and disconnects are in average condition. The basic problems with this type of equipment was lack of identification. Enigmatic alphanumerical codes seemed to be the method of choice for identification where such pains were taken. In several cases, motors were not within sight of their controllers, controllers were not within sight of their disconnects and disconnects were not within sight of either motor or controller. These conditions are hazardous to maintenance personal working on motor-driven equipment and constitute NEC violations. Many disconnect switches are in poor condition-with non-functioning mechanical interlocks, loose fuse clips, etc. (E.g. heat trace system) In several instances, disconnect switches and circuit breakers are still connected to the distribution system though they no longer supply any loads, thus causing additional confusion in system. Also described elsewhere.
2.2.5.2.	LIGHTING		
2.2.5.2.1	Type: ☐ Pole mounted ☐ Wall mounted ☐ Soffit mounted lights ☐ Other	4	Needs to be upgraded. Described elsewhere.

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 20 OF 27

2.2.5.2.2	Type: ☐ Fluorescent (with imperial lamps) ☐ Fluorescent (with metric lamps) ☐ Incandescent ☐ High intensity discharge (HID) ☐ Other special lighting fixtures Compact fluorescent	3	The lighting in this facility, while not altogether unpleasant, does not conform with present energy and resource conservation techniques. In addition, the general age of the luminaries and accessories indicates ever-increasing maintenance and repair costs. Some luminaries were designed expressly for this building and are not found anywhere else. Many areas within the building and on the grounds are poorly lit and replacement or additional lighting systems are recommended. The lighting in this building is comprised of a mixed variety of
	Lights are controlled by: ☐ Low voltage switching ☐ Line voltage switching ☐ Photocells ☐ Computerized management system(s) ☐ Other		sources and styles. Some areas are unique with unusual luminaries. Others are relatively bland and institutional. Guest rooms are poorly lighted (especially toilets). Sources of accessories are inefficient. Areas have changed use and function and lighting has not been changed to reflect the new use. Corridor arrangements are confusing and, information regarding exit locations provided by signs is similarly confusing, (i.e. exit light do not ensure directional guidance they are required to provide.
	The lighting levels are generally: ☐ Lower ☐ Higher than necessary ☐ Adequate		Of all the lighting systems encountered in the building, the system in the "Chapel" was perhaps the most inappropriate. The lighting was the same as the arrangement for a guest room and was inconsistent with the current use.
2.2.5.2.3	SPECIAL LIGHTING		
	☐ There is special lighting in this facility: (i.e. pool lights, stage lights, etc.) Please describe.		
2.2.5.2.99	The following bulbs are in use: □ Wattmiser fluorescent (T-8) □ Mini-fluorescent □ Other energy efficient bulbs The fluorescent ballasts are: □ Standard core and coil □ Wattmiser core and coil □ Electronic	3	Interior illumination and luminaries do not comply w/Federal Energy Legislation Guide (latest edition)
2.2.5.3.	EMERGENCY SYSTEMS		

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 21 OF 27

2.2.5.3.1	EXIT/EMERGENCY LIGHTING Type of exit light used is: ☐ Luminescent (no electrical conn.) ☑ Incandescent (wall or ceiling mtd) ☑ Other Emergency lighting is fed from: ☑ Battery packs ☑ Emergency generator	5/6	The emergency lighting system is comprised of the units intended to provide emergency lighting and connected to the emergency generator system plus the few battery-operated lighting units added since the original construction and implementation of the new emergency system. The coverage provided by the generation system is not truly classifiable as "emergency". The Life Safety Code states "failure of any component shall not leave any area in darkness." The generator has failed on at least one occasion. It is recommended sufficient battery-operated emergency lighting units be added to prevent falling below the levels required by the Life Safety Code in the event the emergency generator system should fail. All exit signs in this facility are connected to emergency generation system. See the argument above (emergency lighting systems). for the reason why battery operated units are recommended for this building. In addition, the arrangement of corridors and the locations of exit signs are confusing. A comprehensive study and design should be conducted to simplify and clarify the locations of nearest points of egress from each and every point within the building.
2.2.5.3.2	FIRE ALARM AND DETECTION Type: ☑ Multiple zone 120 volts ☐ Multiple zone hard wired (with annunciators ☑ Multiplexed (computer controlled) ☐ Other ☑ Signal is transmitted to fire dept. Is an initial verification certificate available? ☐ Yes ☐ No ☐ Has an audit been completed? ☐ Date:	5	This fire alarm system, Simplex 4100 (4120), was replaced in 1994 with a fully addressable system. It basically consists of the same manufacturer's equipment interconnected over several years of development and evolution. There are different voltages, different types of detectors and manual pull stations, and different types of signals. In the Vestibule near the Food Service Delivery area, the main gas piping blocks one of the visual alarm signals and detection system from view. The Fire Alarm System was initially approved by the State Fire Marshal and has always passed annual inspections. However, the number of Fire Alarm pull stations should be increased. Fire alarm pull stations should be added along the "Natural path of escape". Storage areas, janitor rooms, etc. occasionally lack heat or smoke detectors. Distribution and number of fire alarm horns should be checked to insure required sound levels in all areas of the building.

ASCG, INC. Page 22 OF 27

2.2.5.3.3	SECURITY		
2.2.3.3	This facility has: ☐ Intrusion alarm ☐ Mechanical failure alarm ☐ CCTV The alarms are monitored by: ☑ On-site staff ☐ An outside agency ☐ Government Centre	5	This section covers the WanderGard system. There is also a wireless nurse call system, which utilizes pendants that can be worn around a residents neck. Calls initiated by the pendants are received through pagers worn by staff. Door alarms also communicate to the staff pagers. An "enlisted" resident approaching an alarmed door will automatically lock the door. An alarm will only sound if the door is ajar or the resident persists with passage thru the door. There were no problems reported with the existing WanderGard system. The basic problem from an electrical system point of view is the significant amount of exposed wiring associated with the installation of this system.
2.2.5.3.99	EMERGENCY SYSTEMS - OTHER Describe any other special		N/A
	emergency systems (Halon extinguishing systems, etc.)		
2.2.5.4	COMMUNICATIONS		
2.2.5.4.1	TELEPHONE / FAX This facility has the following phone system: Centrex Leased / Owned PBX Utility owned Other	5/6	Matanuska Telephone Co. Northern Telecon – Meridian (approx. 1993) Described elsewhere.
2.2.5.4.2	TV / COMPUTER This facility has a TV System connected to: ☐ Cable TV ☐ Satellite dish Other Main Antenna System_ Type of local area computer network (LAN) ☐ IBM token ring ☐ Coaxial (arcnet) ☐ Ethernet ☐ Other	4	Cable television is supplied using exterior distribution of cable wrapped around the building and over the roof. Described elsewhere.
2.2.5.4. 3	ELECTRICAL HEATING	4	The roof heat trace only. Only portions of the heat trace are working. Control system for heat trace does not exist.
2.2.5.4.4	INTERCOM Describe type of intercom system installed	5	The nurse call system was installed in 1994 and is functioning adequately.

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 23 OF 27

2.2.5.4.5	PAGING & PUBLIC ADDRESS Describe type of public address system	6	A Fisher-Berkley nurse call system was installed in 1994. The manufacturer is out of business, but staff reports that after market components are still being manufactured.
2.2.5.5.99	Describe any other communications systems	7/8	Door/Exit monitoring (to prevent patients from wandering off the premises).
	OTHER CONCERNS Do you anticipate the need for any significant repairs, upgrades, or replacement of electrical, data, or communication systems in the next 5 years? If Yes, describe briefly.		Yes 🗵 No 🗖 In order to bring the building's electrical systems into compliance with code requirements, energy efficiency requirements and furthermore upgrade the obsolete and degraded system and indepth analysis of corrective actions is offered. The analysis is divided into two paragraphs. The first describes code violations corrections, the second how to structure the upgrading of building's electrical systems.
		4	Emergency Lighting 1 Remove present obsolete and deteriorated and battery operated emergency lights. 2 Augment existing battery operated exit lights with new battery operated exit lights. 3 Augment battery operated emergency lights with new battery operated emergency lights.
		5	Marking Means of Egress 1. Appropriate exit lights and/or emergency lighting fixtures to be installed at locations which lack the code required directional guidance.
		5	Exit Lights – to be readily visible from any direction of exit access 1. Multi-faced exit lights with indicating arrows will be installed at locations where they are required.
		3	Completeness of the Fire Alarm System (applies to the whole system) 1. Install Fire Alarm Annunciator Panel 2. Install new fire alarm devices in compliance with applicable codes.
		5	Manual Fire Alarm Stations in Natural Path of Escape 1. Install fire alarm pull stations in such locations like: a. Crossings of corridors b. Exits
		3	Location of Controls (Fire Alarm Control Panel and Annunciator) 1. Fire alarm annunciator panel will be located at the main

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 24 OF 27

3

OTHER CONCERNS, Cont'd

Do you anticipate the need for any significant repairs, upgrades, or replacement of electrical, data, or communication systems in the next 5 years? If Yes, describe briefly.

entrance to the original building.

Interrupting Rating of Electrical Equipment

- 1. Remove electrical equipment circuit breakers not complying with National Electrical Code requirements,
 - Circuit breakers with broken covers and open access to internal parts.
 - Panels with loose bolted busbars connections.
 - Equipment which indicates deteriorated state of insulation.

Warning Signs

1. Install warning signs for flash protection.

Guarding of Live Parts

- 1. Remove electrical equipment with broken or missing covers, side walls, handles, etc.
- 2. Replace with new electrical equipment.

Branch Circuit Rating – conductor minimum ampacity and size

- 1. Identify and calculate present loads on branch circuits in order to verify ampacity requirements.
- 2. Redistribute and calculate present loads on branch circuits in order to verify ampacity requirements.
- 3. Add arc protectors where required by current NEC.

Over current Protection

- 1. Remove all circuit breakers, devices with broken covers.
- 2. Remove all fusible disconnect switches with loose and/or incomplete fuse clips.
- 3. Install new circuit breakers.
- 4. Install new fusible disconnect switches.

Conductors Protection Against Physical Damage

- . Remove unprotected conductors.
- 2. Install protective raceways, wireway trays, etc.
- 3. Reinstall formerly removed or new conductors as required.

Covers - Pull and Junction Box

1. Install cover where required.

Panelboards Marking of Voltage and Current Rating

- 1. Remove panels with corroded, broken or missing covers.
- 2. Install new panels.

Air-Conditioning and Refrigerating Equipment Disconnecting Means

1. Install disconnecting means as required.

Distribution System – Power

- 1. Utility transformer installation violates NEC requirements regarding safeguarding.
- 2. Energy efficiency.
- 3. Reroute water line out of electrical room.

RATING GUIDE 1 = Emergency 2 = Unsatisfactory 3 = Poor 4 = Poor/Monitoring 5/6 = Acceptable 7/8 = Good 9 = Excellent FI = Further Investigation NA = Not Applicable

ASCG, INC. Page 25 OF 27

	1		
			Outdoor Lighting 1. It is recommended that present parking lot be completely removed and replaced with new parking lot lighting.
			 Telephone System: Present system (Northern Telecom - Meridian) was installed approximately 15 years ago, and for this reason should be considered obsolete. It is recommended that the present system be removed and new telephone system be installed. Make and features of the new will be part of programming process. Telephone Service: if teleconferencing and remote diagnosing are contemplated for the facility the telephone service should be upgraded to fiber optics.
			20E Security System (CCTV) 1. It may be required to provide the facility with CCTV system.
			TV. System 1. It would be advisable to provide the facility with state of the art TV system.
			Computer System 1. At present the system consists of two local servers. Also, computer service is being received from Juneau.
			NOTE: It should be noted at this point that some corrective actions may have to be modified in order to adapt them to future new programs which are planned to be implemented in the building.
			Non -Compliance with NFPA 70B Recommended Practice for Electrical Equipment Maintenance
			Partial compliance with NFPA 70E Standard for Electrical Safety Requirements in Employee Workplaces.
			Non-compliant with ADA (electrical) requirements.
2.3	SERVICEABILITY & PERFORMANCE		
2.3.1	REGULATORY ISSUES		
2.3.1.1	CURRENT BUILDING CODE	4	See individual discipline comments for code issues.
	Indicate building code issues that need to be addressed.		
	Is accessibility to the facility for persons with limited mobility a concern?		

RATING GUIDE	1 = Emergency	2 = Unsatisfactory	3 = Poor	4 = Poor/Monitoring	
	5/6 = Acceptable	7/8 = Good	9 = Excellent	FI = Further Investigation	NA = Not Applicable

ASCG, INC. Page 26 OF 27

2.3.1.2	OCCUPATIONAL HEALTH & SAFETY Identify and rate any concerns associated with hazardous materials, first aid or general safety.		See electrical above.
2.3.1.3	RELATED REGULATIONS Are there statutes or bylaws (e.g. Environmental Protections Act) □ No ⊠ Yes List and describe. Are there any outstanding requests from Risk Management on this facility? □ No □ Yes List and describe.		State Department of Environmental Conservation
2.3.2	USER / OCCUPANT ISSUES		
2.3.2.1	INDOOR ENVIRONMENTAL Identify and rate user / operator concerns associated with: □ Temperature □ Humidity □ Lighting □ Acoustics □ Maintenance / Cleanliness □ Energy performance (as it relates to control / requirements of the occupants) Describe any flagged items	5 4 4	Maintenance reports that heating the rooms is accomplished by the HVAC system as the fin tube in the room is inadequate. The run for HVAC in the Raven and Homestead wings is extremely long and getting adequate air to those wings is not possible. The ducting system is 30 years old and has never been cleaned. Many residents have allergies or Compromised Obstructive Pulmonary Disease. The ducting needs to be cleaned and the filtering system upgraded. House keeping reports that the effort to maintain the vinyl flooring is far above that for carpeted areas, releases cleaning chemical fumes, and necessitates closing off corridors for intervals. Staff reports roof leaks in 3 places in the building. The roof lines are a mix of, hips, valleys, pitchbreaks all at different heights and angles and very difficult to make water tight. The leaks are occurring at where sloped roofs intersect vertical walls and flat roofs.

ASCG, INC. Page 27 OF 27

2.3.2.2	SERVICEABILITY & OPERATION Identify and rate user / operator concerns associated with: ☐ Equipment accessibility ☐ Storage or floor loading ☐ Wire management / cabling	5	Storage for housekeeping carts and cleaning supplies in the various wings is lacking due to the fact that many of the rooms designated for the janitor also contain electrical panels. The panels must have clear space in front of them, thus limiting the storage capabilities of the space. The Fire Marshal is allowing cart storage in these spaces since the carts are on wheels, but this is technically not allowed.
	⊠Security and operation, hours, etc. ☐ Lighting control	5	TV cabling is haphazard on the exterior of the building. There is access and room in the utilidors to cable nearly the entire facility.
	□ Public image □ Amenities for users (smoking areas, etc.) □ Traffic and arrangement of spaces, work stations, etc. □ Energy performance as it relates to the operations	5	There are currently 24 monitored doors in the facility. 16 exit doors are equipped with magnetic locks, and 5 interior doors are equipped with magnetic locks. A central computer controls locking of the doors. The locks can be overridden by and exterior keypad. The unmonitored door to the courtyard should be monitored and both courtyard doors should receive magnetic locks. Staff is interested in installing video surveillance of three key doors for after hours staff.
	Describe any flagged items	3	The loading dock is far from the new supply room location and supplies must be hand trucked through the facility.
		3	There is excessive heat gain and brightness in the main gathering room on sunny days.
		3	Residents need a smooth hard surface walking area outside as many cannot negotiate the uneven lawn.

Appendix A – Photos

Not Available

4/19/2004

Palmer Pioneer Home

Palmer, Alaska
Facility Condition Survey

Owner: State of Alaska

Department of Health and Social Services

Client: ASCG

3900 C Street Suite 502 Anchorage, Alaska 99503

Ph: 907-339-6500 Fax: 907-339-5331

Prepared By: Estimating Plus

by Dave & Debbie Ashworth 7800 Debarr Road #335 Anchorage, Alaska 99504

Ph: 907-333-9584 Fax: 907-333-9584

Base Bid Estimate

By Dave & Debbie Ashworth

	Project: State Veteran's Home Estimate		U	ι	JNIT C	OSTS			Job Cost					
Section	ITEM DESCRIPTION	QUANT	I T	LABOF MH	COST	MAT UNIT	EQUIP UNIT	SUB UNIT	LABOR COST	MATERIAL COST	EQUIP COST	SUB. COST	TOTAL COST	
550.011	TEM BESSELL TION	40/111	Ė		000.	01111	0	01111	0001	0001	0001	000.	000.	
1.2.1.1 Sidewalk Replacement & Addition 300-0 x 5-0w x 4" thk	Rem Sidewalk	320	sf	0.02	50	0.00	0.75		320		240		560	
1.2.1.1 Sidewalk Replacement & Addition 50-0 x 4-0w x 4" thk	Prep / Compact	1,500	sf	0.02	50	0.00	0.75		3,000		240		3,000	
1.2.1.1 Sidewalk Replacement & Addition 50-0 x 4-0w x 4" thk	New Concrete Walk	1,500	sf	0.02	50	1.65			1,500	2,475			3,975	
1.2.1.1 Sidewalk Replacement & Addition 50-0 x 4-0w x 4" thk	Forms	400	lf .	0.02	50	0.35			360	140 375			500 938	
1.2.1.1 Sidewalk Replacement & Addition 50-0 x 4-0w x 4" thk 1.2.1.1 Sidewalk Replacement & Addition 50-0 x 4-0w x 4" thk	WWF Mesh Construction Joints @ 5-0 O.C.	1,500 100	sf If	0.01	50 50	0.25 0.25			563 150	25			938 175	
1.2.1.1 Sidewalk Replacement & Addition 50-0 x 4-0w x 4" thk	Finish	1,500	sf	0.02	50	0.00			1,500				1,500	
1.2.1.1 Sidewalk Replacement & Addition 300-0 x 4-0w x 4" thk Total									7,393	3,015	240		10,648	
1.2.1.3 Storage Building 1.2.1.3 Storage Building	Site work Foundations/slabs	100 1,600	cy sf					123.30 15.75				12,330 25,200	12,330 25,200	
1.2.1.3 Storage Building	Mechanical	1,600	31					4.75				7,600	7,600	
1.2.1.3 Storage Building	Electrical	1,600						6.95				11,120	11,120	
1.2.1.3 Storage Building	Building (1,600 SF) Erected	1,600	sf		50	18.10				28,960			28,960	
1.2.1.3 New Storage Building Total 1.2.2.1 Surface Walkways Repair	Rem Walkway	200	sf	0.05	50	0.00	0.75		500	28,960	150	56,250	85,210 650	
1.2.2.1 Surface Walkways Repair	Prep / Compact	200	sf	0.03	50	0.00	0.75		400		130		400	
1.2.2.1 Surface Walkways Repair	New Concrete Walkway	200	sf	0.04	50	1.65			350	330			680	
1.2.2.1 Surface Walkways Repair	Forms	100	lf 	0.01	50	0.35	ļ		50	35			85	
1.2.2.1 Surface Walkways Repair 1.2.2.1 Surface Walkways Repair	WWF Mesh Construction Joints @ 5-0 O.C.	800 20	sf If	0.01	50 50	0.25 0.25			200 30	200 5		+	400 35	
1.2.2.1 Surface Walkways Repair	Finish	200	sf	0.03	50	0.00			300				300	
1.2.2.1 Surface Walkways Repair Total									1,830	570	150		2,550	
1.2.2.2 Landscaping	Timber edging	800	lf 	0.04	50	3.30			1,400	2,640			4,040	
1.2.2.2 Landscaping 1.2.2.2 Complete landscape border at building	Gravel beds around building	4,000	sf	0.01	50	0.53			2,000 3,400	2,120 4,760			4,120 8,160	
1.2.2.3 Repair Pavilion	Remove Screens	500	sf	0.04	50	0.00			1,000	4,700			1,000	
1.2.2.3 Repair Pavilion	Install 10 mm clear plastic sheathing	500	sf	0.06	50	0.37			1,500	185			1,685	
1.2.2.3 Repair Pavilion	Patch Moldings as Needed	500	sf	0.03	50	0.50			675	250		-	925 750	
1.2.2.3 Repair Pavilion 1.2.2.3 Repair Pavilion Total	Paint As Needed	500	sf	0.02	50	0.50			500 3,675	250 685			4,360	
1.2.4.2 Head Bolt Heater Plug Ins	Drill Holes For Post	5	ea	0.00	50	0.00		100.00	2,212	0.00		500	500	
1.2.4.2 Head Bolt Heater Plug Ins	Concrete	5	ea	0.50	50	16.00			125	80			205	
1.2.4.2 Head Bolt Heater Plug Ins 1.2.4.2 Head Bolt Heater Plug Ins	6 x 6 x 8-0 AWW Post Quad Recepticals / Boxes WP 20amp	5 10	ea	0.50	50 50	36.00 60.00			125 250	180 600			305 850	
1.2.4.2 Head Bolt Heater Plug Ins	Wire & Conduit	5	ea	1.50	50	25.00			375	125			500	
1.2.4.2 Head Bolt Heater Plug Ins	Connect to Existing	5	ea	1.00	50	20.00			250	100			350	
1.2.4.2 Head Bolt Heater Plug Ins Total	D D :	40.000	_	0.00		0.00		4.00	1,125	1,085		500	2,710	
1.2.4.3 Regrade Parking / Paving & New Drive 1.2.4.3 Regrade Parking / Paving & New Drive	Rem Paving Regrade / D-1 6" / Compact	10,000 10,000	sf sf	0.00	50 50	0.00		1.00 4.50				10,000 45,000	10,000 45,000	
1.2.4.3 Regrade Parking / Paving & New Drive	New Paving 4"	80,000	sf	0.00	50	0.00		2.50				200,000	200,000	
1.2.4.3 Regrade Parking / Paving & New Drive Total												255,000	255,000	
1.2.4.4 New Supply Room Drive Access	Ex / BF	500	sf	0.00	50	0.00		2.50 4.50				1,250 9,000	1,250 9,000	
1.2.4.4 New Supply Room Drive Access 1.2.4.4 New Supply Room Drive Access	Regrade / D-1 6" / Compact New Curb & gutter	2,000 100	sf If	0.00	50	0.00		4.50				9,000	9,000	
1.2.4.4 New Supply Room Drive Access	New Paving 4"	1,000	sf	0.00	50	0.00		2.50				2,500	2,500	
1.2.4.4 New Supply Room Drive Access	Hand Work @ Building	1	job	10.00	50				500				500	
1.2.4.4 New Supply Room Drive Access Total 1.2.4.5.New Fence East Side Property	New Post Steel 10-0	51	ea	0.04	50	21.00			500 102	1.071		12,750	13,250 1.173	
1.2.4.5.New Fence East Side Property 1.2.4.5.New Fence East Side Property	Chain Link 7-0 High	500	ea If	0.04	50	4.75			1,000	2,375			3,375	
1.2.4.5.New Fence East Side Property	Top Rail	500	lf	0.01	50	1.50			200	750			950	
1.2.4.5.New Fence East Side Property	Misc Accessories	500	lf ''	0.01	50	0.30			250	150			400	
1.2.4.5.New Fence East Side Property 1.2.4.5.New Fence East Side Property	Site Clean-up Hydro Reseed Areas Distrubed	500 500	If If	0.01	50 50	0.00		1.50	200 100			750	200 850	
1.2.4.5.New Fence East Side Property 1.2.4.5.New Fence East Side Property Total	Trydro Nesced Aleas Distribed	500	"	0.00	50			1.50	1,852	4,346		750 750	6,948	
2.2.2.4 Door Openings @ Exterior	Rem Single Door	11	ea	2.00	50	25			1,100	275			1,375	
2.2.2.4 Door Openings @ Exterior	New Dbl Door / Frame w/ ADA Operators	11	ea	9.00	50	1,500			4,950	16,500			21,450	
2.2.2.4 Door Openings @ Exterior 2.2.2.4 Door Openings @ Exterior	Patch & Repair Interior / Exterior Paint	11 11	ea ea	1.25	50 50	40 35	 		688 550	440 385			1,128 935	
2.2.2.4 Single Door Openings @ Exterior Total	i unit	- ''	ca	1.00	50	33			7,288	17,600		+	24,888	
2.2.2.4 Door Openings @ Exterior	Rem Dbl Door	4	ea	1.25	50	25			250	100			350	
2.2.2.4 Door Openings @ Exterior	New Dbl Door w/ ADA Operators	4	ea	6.00	50	950			1,200	3,800			5,000	
2.2.2.4 Door Openings @ Exterior 2.2.2.4 Door Openings @ Exterior	Patch & Repair Interior / Exterior Paint	4	ea	1.25 0.50	50 50	40 25			250 100	160 100		+	410 200	
	- and		Cu	0.00	00	23			1.800	4.160			5.960	

Base Bid Estimate

By Dave & Debbie Ashworth

	Project: State Veteran's Home Estimate		U UNIT COSTS					Job Cost					
Section	ITEM DESCRIPTION	QUANT	I T	LABOF MH	COST	MAT UNIT	EQUIP UNIT	SUB UNIT	LABOR COST	MATERIAL COST	EQUIP COST	SUB. COST	TOTAL COST
2.2.2.5.1 Covered Entry Walkway	Drill Holes For Columns 10-0 o.c.	16	ea	0.00	50	0.00		55.00				880	880
2.2.2.5.1 Covered Entry Walkway	Sono Tube 12" x 8-0	16	ea	0.33	50	28.00			264	448			712
2.2.2.5.1 Covered Entry Walkway	Rebarr	16	ea	2.00	50	50.00			1,600	800			2,400
2.2.2.5.1 Covered Entry Walkway	Concrete	16	ea	1.50	50	35.00			1,200	560			1,760
2.2.2.5.1 Covered Entry Walkway	Grout Columns	16	ea	0.04	50	10.00			32	160			192
2.2.2.5.1 Covered Entry Walkway	Columns Timber 6 x 6	16	ea	1.00	50	65.00			800	1,040			1,840
2.2.2.5.1 Covered Entry Walkway	Steel Bases / Caps	16	ea	1.25	50	100.00			1,000	1,600			2,600
2.2.2.5.1 Covered Entry Walkway	GLB's 3 1/2 x 12	40	lf	0.04	50	11.50			76	460			536
2.2.2.5.1 Covered Entry Walkway	Timber Trusses 10-0 Span 4-0 o.c.	40	ea	2.00	50	200.00			4,000	8,000			12,000
2.2.2.5.1 Covered Entry Walkway	3 x 6 T&G Decking	1,000	sf	0.08	50	4.50			4,000	4,500			8,500
2.2.2.5.1 Covered Entry Walkway	2 x 6 Fascia Board	200	lf	0.01	50	0.45			140	90			230
2.2.2.5.1 Covered Entry Walkway	2 x 8 Cedar Fascia Board	200	sf	0.01	50	0.90			140	180			320
2.2.2.5.1 Covered Entry Walkway	3/4 CDX	1,200	sf	0.02	50	0.69			1,320	828			2,148
2.2.2.5.1 Covered Entry Walkway	Ice and water shield	12	sq	2.00	50	174.00			1,200	2,088			3,288
2.2.2.5.1 Covered Entry Walkway	Metal Roofing Expsoed Fasteners	1,200	sf	0.05	50	2.50			3,000	3,000			6,000
2.2.2.5.1 Covered Entry Walkway	Finish Site Work	600	lf	0.10	50	0.00			3,000				3,000
2.2.2.5.1 Covered Entry Walkway	Paint Wood / Steel	300	lf	0.50	50	10.00			7,500	3,000			10,500
2.2.2.5.1 Covered Entry Walkway Total			$oldsymbol{\sqcup}$		$\sqcup \sqcup$				29,272	26,754		880	56,906
2.2.2.5.2 Repair / Reslope Roof	Allowance	300	sf	1.33	50	6.50		1	19,950	1,950			21,900
2.2.2.5.2 Repair / Reslope Roof Total			ш					1	19,950	1,950			21,900
2.2.2.5.3 Create Outside Walk Area	Site work	100	су		50			123.30				12,330	12,330
2.2.2.5.3 Create Outside Walk Area	Foundations/slabs	1,600	sf		50			15.75				25,200	25,200
	Mechanical	1,600	sf		50			7.45				11,920	11,920
2.2.2.5.3 Create Outside Walk Area			ш									49,450	49,450
2.2.2.5.5 Supply Room Tasks	Dem Finish / Cut Opening	1	ea	32.00	50	0.00		1	1,600				1,600
2.2.2.5.5 Supply Room Tasks	Frame Opening	1	ea	24.00	50	150.00			1,200	150			1,350
2.2.2.5.5 Supply Room Tasks	New 8-0 x 8-0 OH Insulation Door Manual	64	sf	0.50	50	0.00		19.00	1,600			1,216	2,816
2.2.2.5.5 Supply Room Tasks	New Trim	1	ea	2.50	50	80.00			125	80			205
2.2.2.5.5 Supply Room Tasks	Patch / Repair Interior	1	ea	2.00	50	30.00			100	30			130
2.2.2.5.5 Supply Room Tasks	Paint	1	ea	3.00	50	40.00			150	40			190
2.2.2.5.5 Supply Room Tasks	Site Clean-up	1	ea	1.50	50	10.00			75	10			85
2.2.2.5.5 Supply Room Tasks Total			ш						4,850	310		1,216	6,376
2.2.2.5.6 Cover T1-11 With New Siding	Install new siding	40	sq	8.00	50	396.00			16,000	15,840			31,840
2.2.2.5.6 Cover T1-11 With New Siding	Site Clean-up	1	job	8.00	50	0.00			400				400
2.2.2.5.6 Cover T1-11 With New Siding Total			ш						16,400	15,840			32,240
2.2.3.3.3 Repair Fire Place Stones	Repair Fire Place Stones Allowance	10	job	12.00	50	300.00			6,000	3,000			9,000
2.2.3.3.3 Repair Fire Place Stones Total									6,000	3,000			9,000
2.2.3.7. Re-Route Television Cable Allowance	Re-Route Television Cable Allowance	70	job	12.00	50	100.00			42,000	7,000			49,000
2.2.3.7. Re-Route Television Cable Allowance Total									42,000	7,000			49,000
2.2.3.7. Solarium Heat Build Up Problems	Remove Existing Glazing	1,200	sf		50			2.00				2,400	2,400
2.2.3.7. Solarium Heat Build Up Problems	Install new glazing	1,200	sf		50			42.00				50,400	50,400
2.2.3.7. Solarium Heat Build Up Problems Total			ш									52,800	52,800
2.2.3.8.1 ADA Restrooms/Reception	Dem Exist Area	200	sf	0.20	50	0.00			2,000				2,000
2.2.3.8.1 ADA Restrooms/Reception	Reframing	200	sf	0.10	50	2.50			1,000	500			1,500
2.2.3.8.1 ADA Restrooms/Reception	Floor CT / Wall FRP / Ceiling GWB Finish	200	sf	0.00	50	7.50		12.00		1,500		2,400	3,900
2.2.3.8.1 ADA Restrooms/Reception	Install new doors	2	ea	9.00	50	1,500			900	3,000			3,900
2.2.3.8.1 ADA Restrooms/Reception	Casework / Toilet Accessories	200	sf	0.04	50	3.00			400	600			1,000
2.2.3.8.1 ADA Restrooms/Reception	Mechanical 1 Stall Each Men / Womens	200	sf	0.00	50	0.00		18.75				3,750	3,750
2.2.3.8.1 ADA Restrooms/Reception	Electrical	200	sf	0.05	50	30.00		13.50	500	6,000		2,700	9,200
2.2.3.8.1 ADA Restrooms/Reception	Paint	200	sf	0.04	50	0.50			400	100			500
2.2.3.8.1 ADA Restrooms/Reception	Site Clean-up	200	sf	0.02	50	0.25			200	50			250
2.2.3.8.1 ADA Restrooms & Reception Area			ш						5,400	11,750		8,850	26,000
2.2.3.8.2 Replace Carpet	Rem Carpet	4,000	sf	0.01	50	0.00			2,000				2,000
2.2.3.8.2 Replace Carpet	Rem Wall Base	4,000	sf	0.00	50	0.00		ļ	600				600
2.2.3.8.2 Replace Carpet	Prep Floor	4,000	sf	0.03	50	0.00			6,000				6,000
2.2.3.8.2 Replace Carpet	New Carpet	1,700	yd	0.00	50	35.00				59,500			59,500
2.2.3.8.2 Replace Carpet	Clean-up	15,000	sf	0.00	50	0.00			1,500				1,500
2.2.3.8.2 Replace Carpet			ш						10,100	59,500			69,600
2.2.3.8.3 Replace Vinyl Flooring	Rem Vinyl Flooring VCT	11,000	sf	0.03	50	0.00	NO ASBE	ESTOS	16,500				16,500
2.2.3.8.3 Replace Vinyl Flooring	Rem Wall Base	11,000	sf	0.00	50	0.00			1,650				1,650
2.2.3.8.3 Replace Vinyl Flooring	Prep Floor	11,000	sf	0.00	50	0.08			2,200	880			3,080
2.2.3.8.3 Replace Vinyl Flooring	New VCT	1,000	sf	0.25	50	4.62			12,500	4,620			17,120
2.2.3.8.3 Replace Vinyl Flooring	New base	2,500	lf	0.04	50	1.50			4,375	3,750			8,125
2.2.3.8.3 Replace Vinyl Flooring	Clean / Wax	1,000	sf	0.01	50	0.07			350	70			420
2.2.3.8.3 Replace Vinyl Flooring	Clean-up	11,000	sf	0.00	50	0.00			1,650				1,650
2 2 3 9 3 Pontago Vinul Flooring									39,225	9,320			48,545
2.2.3.8.3 Replace Vinyl Flooring	-	70	ea	1.00	50	0.00			3,500				3,500
2.2.3.8.5 Install Automatic Pocket Door Openers	Dem						_	_					
2.2.3.8.3 Replace Vinyl Flooring 2.2.3.8.5 Install Automatic Pocket Door Openers 2.2.3.8.5 Install Automatic Pocket Door Openers	Opener Opener	70	ea	2.50	50	375.00			8,750	26,250			35,000
2.2.3.8.5 Install Automatic Pocket Door Openers			ea ea	2.50 1.50	50 50	375.00 30.00			8,750 5,250	26,250 2,100			35,000 7,350
2.2.3.8.5 Install Automatic Pocket Door Openers 2.2.3.8.5 Install Automatic Pocket Door Openers	Opener	70											
2.2.3.8.5 Install Automatic Pocket Door Openers 2.2.3.8.5 Install Automatic Pocket Door Openers 2.2.3.8.5 Install Automatic Pocket Door Openers	Opener Patch / Repair	70 70	ea	1.50	50	30.00			5,250	2,100			7,350

Base Bid Estimate

By Dave & Debbie Ashworth

	Project: State Veteran's Home Estimate		U N	ι	JNIT C	OSTS					Job Cost		
Section	ITEM DESCRIPTION	QUANT	I T	LABOF MH	COST	MAT UNIT	EQUIP UNIT	SUB UNIT	LABOR COST	MATERIAL COST	EQUIP COST	SUB. COST	TOTAL COST
2.2.3.8.6 Install Operable Partition @ Meeting Room	Demo	500	sf	0.09	50	0.00			2,250				2,250
2.2.3.8.6 Install Operable Partition @ Meeting Room	New Header / Framing	500	sf	0.33	50	5.00			8,250	2,500			10,750
2.2.3.8.6 Install Operable Partition @ Meeting Room	Operable Partition 30-0 x 16-0	500	sf	0.10	50	32.00			2,500	16,000			18,500
2.2.3.8.6 Install Operable Partition @ Meeting Room	Patch / Repair	500	sf	0.13	50	1.50			3,250	750			4,000
2.2.3.8.6 Install Operable Partition @ Meeting Room	Trim Work	500	sf	0.65	50	0.07			16,250	35			16,285
2.2.3.8.6 Install Operable Partition @ Meeting Room	Clean-up	500	sf	0.01	50	15.00			250	7,500			7,750
2.2.3.8.6 Install Operable Partition @ Meeting Room									32,750	26,785			59,535
2.2.3.8.7 Create Wash Down Area	Allowance	100	sf	1.00	50	35.00			5,000	3,500			8,500
2.2.3.8.7 Create Wash Down Area									5,000	3,500			8,500
2.2.3.8.8 Create Reception Area	Allowance	200	sf	0.30	50	29.00			3,000	5,800			8,800
2.2.3.8.8 Create Reception Area									3,000	5,800			8,800
2.2.3.8.9 Add Handrail to Chair/Handrail	Demo handrail from chair rail	2,100	lf	0.05	50				3,224	2,750			5,974
2.2.3.8.9 Add Handrail to Chair/Handrail	Install new handrail on existing chair rail	2,100	lf	0.05	50	3.91			5,019	8,211			13,230
2.2.3.8.9 Add Handrail to Chair/Handrail	Clean-up	4,200	sf	0.01	50							1,500	1,500
2.2.3.8.9 Replace Chair/Handrail									8,243	10,961		1,500	20,704
2.2.3.8.13 Install 2 workstations in lounge area	Purchase work stations and install	2	ea	4.00	50	4,500.00			3,224	2,750			5,974
2.2.3.8.13 Install 2 workstations in lounge area			.						3,224	2,750			5,974
2.2.4.1 Mechanical Services	Replace laundry waste line	1	job	32.00	57	2,200.00			3,224	2,750			5,974
2.2.4.1 Mechanical Services	Re-connect fuel supply line	1	job	16.00	57	500.00		4500.00	912	500		4.500	1,412
2.2.4.1 Mechanical Services	Service UST	1	job	0.00		0.00		1500.00				1,500	1,500
2.2.4.1 Mechanical Services	Fire Sprinkler System in generator room and freezer	1	job	0.00	57	0.00	-	9000.00				9,000	9,000
2.2.4.1 Mechanical Services	Description and applications in a size in colors	400	10	0.05					4,136	3,250		10,500	17,886
2.2.4.2.1 Heat Source	Remove and replace pipe insulation	100	lf .	0.05	57	7.50			285	750			1,035
2.2.4.2.1 Heat Source	Repair Stack System	1	job	6.00	57	300.00		0500.00	342	300		0.500	642
2.2.4.2.1 Heat Source	Boiler control system		job	4.00	57	150.00		8500.00	228	150		8,500	8,878
2.2.4.2.1 Heat Source	Replace boilers #1 & 2, air separator and expansion tank	2	ea	192.00	57	14,000.00		00.00	21,888	28,000		70.000	49,888
2.2.4.2.1 Heat Source	Replace all boiler room heating piping, valves, etc.	2,000	lf	0.00	57	0.00		36.00 2244.00				72,000	72,000
2.2.4.2.1 Heat Source	Replace all boiler room hydronic pumps	4	ea	0.00	57	0.00		2244.00				8,976	8,976
2.2.4.2.1 Heat Source	Install drain fittings in boiler stacks	4	ea	4.00	57	150.00			912	600		20.470	1,512
2.2.4.2.1 Heat Source	D 1 D			04.00		0.400.00			23,655	29,800		89,476	142,931
2.2.4.2.2 Heat Distribution	Replace Pumps Repair Leaks	1	ea	24.00	57	2,100.00 300.00			1,368 684	2,100			3,468
2.2.4.2.2 Heat Distribution		1	job	12.00	57				171	300		+	984
2.2.4.2.2 Heat Distribution	Replace Valves / Misc	1	ea	3.00	57	150.00				150 2.550			321
2.2.4.2.2 Heat Distribution	Dealess Fish to 1 Course 1 Belease Makes	10	1.5	0.50	F-7	65.00			2,223 285	2,550 650		+	4,773
2.2.4.2.3 Terminal Units	Replace Fintube / Covers / Balance Valves	10	lf	0.50	57							+	935
2.2.4.2.3 Terminal Units	Install cabinet unit heaters	3	ea	1.75	57	1,700.00			299	5,100		+	5,399
2.2.4.2.3 Terminal Units 2.2.4.2.3 Terminal Units	Hydronic Unit Heaters / Piping 105btu Replace AHU Coils	1	ea	10.00	57	1,000.00 525.00			570 171	1,000 525			1,570
		1	ea		57			0500.00	1/1	525		9.500	696 9,500
2.2.4.2.3 Terminal Units 2.2.4.2.3 Terminal Units	Balance Water Flows Complete Bldg	-	job	3.00	57 57	0.00 525.00		9500.00	171	525		9,500	
	Replace AHU Coils		ea	3.00	5/	525.00						0.500	696
2.2.4.2.3 Terminal Units 2.2.4.3.1 Air Handling Units	Replace filter racks on AHU's	4	ea	2.50	57	5,100.00			1,496 570	7,800 20,400		9,500	18,796 20,970
2.2.4.3.1 Air Handling Units	Replace 3 heating coils and control valves	4	ea	15.75	57	2,770.00			2.693	20,400 8.310			11.003
2.2.4.3.1 Air Handling Units	Replace 3 heating coils and control valves	3	ea	15.75	5/	2,770.00			3,263	28,710		-	31,973
	Domo kitchen DV soil and condensing unit	- 1	-00	10.00	57				3,263 570	28,710			570
2.2.4.3.2 Chillers / Condensers 2.2.4.3.2 Chillers / Condensers	Demo kitchen DX coil and condensing unit Install new direct fired make up air unit w/ DX cooling	1	ea ea	16.00	57	8,000.00			912	8,000			8,912
2.2.4.3.2 Chillers / Condensers	install new direct fired make up all unit w/ bx cooling	'	ea	10.00	31	8,000.00			1,482	8,000			9,482
2.2.4.3.3 Air Distribution	Clean Air Distribution System	3,500	lf	0.34	12	0.38	-	-	1,482 14.346	1,330		+	9,482 15,676
2.2.4.3.3 Air Distribution	Balance Air Distribution System	3,300	job	0.00	60	0.00		12000.00	14,340	1,330		12,000	12,000
2.2.4.3.3 Air Distribution 2.2.4.3.3 Air Distribution	Reinsulated Outside / Exhuast Air Duct	1	ea	3.00	60	250.00	-	12000.00	180	250		12,000	430
2.2.4.3.3 Air Distribution	Replace Boiler Room Combustion Air System	1	job	9.00	60	2,200.00			540	2,200		+	2,740
2.2.4.3.3 Air Distribution	Extend HVAC into Sunny Loop Dining	1	job	0.00	60	0.00		45000.00	340	2,200		45,000	45,000
2.2.4.3.3 Air Distribution	New DDC Controller for laundry room	1	job	0.00	60	0.00	-	4000.00				4,000	4,000
2.2.4.3.3 Air Distribution	Provide Ventilation in Corridors& 3 rooms	1	job	0.00	60	0.00		8000.00				8,000	8,000
2.2.4.3.3 Air Distribution	Provide Veritilation in Comdors& 3 rooms		JOD	0.00	-00	0.00		0000.00	15,066	3,780		69,000	87,846
2.2.4.3.4 Humidification	Demo humidification units	4	ea	3.00	60	0.00			720	0,700		03,000	720
2.2.4.3.4 Humidification	Some namenous units		cu	0.00	- 00	5.00			720			-	720
2.2.4.4 Exhaust and Make Up Air	Ventilate Oxygen Room	1	job					1500.00	720			1,500	1,500
2.2.4.4 Exhaust and Make Up Air	Ventilate maintenance shop and garage	1	job				-	2500.00				2,500	2,500
2.2.4.4 Exhaust and Make Up Air		- '	JUU					2000.00				4,000	4,000
2.2.4.5 Controls and Energy Management	Replace all remaining pnuematic controls with DDC	79	ea					1145.00				90,455	90,455
2.2.4.5 Controls and Energy Management	Tropiace an remaining procritate controls with DDC	13	Cu					1140.00				90,455	90,455
2.2.4.6 Plumbing	Replace 4 gas fire w/ 6 indirect fire + 60 LF pipe	1	job					30000.00				30,000	30,000
2.2.4.6 Plumbing	Modify indirect waste pipes	10	ea	0.25	60			55500.00	150			50,000	150
2.2.4.6 Plumbing	Replace vacuum breaker on washer supply line	1	ea	0.40	60	30.00			24	30		+	54
2.2.4.6 Plumbing	Replace ice maker indirect waste piping	10	If	0.40	60	5.00			30	50		-	80
2.2.4.6 Plumbing	Waste line air gap at food prep sink	1	ea	0.50	60	25.00			30	25	+	<u> </u>	55
2.2.4.6 Plumbing	Install ceiling radiant heat panels	2	ea	0.75	60	200.00			90	400		4.000	4.490
2.2.4.6 Plumbing	Install backflow preventers	8	ea	0.80	60	400.00			384	3,200		4,500	3.584
2.2.4.6 Plumbing			Ju	0.00	- 50	700.00			708	3,705		34,000	38,413
									700	5,700		5-,500	00,.10

Base Bid Estimate

By Dave & Debbie Ashworth

		Project: State Veteran's Home		U	ı	UNIT C	OSTS			Job Cost						
		Estimate		N												
				1	LABOR		MAT	EQUIP	SUB	LABOR	MATERIAL	EQUIP	SUB.	TOTAL		
Section		ITEM DESCRIPTION	QUANT	T		COST	UNIT	UNIT	UNIT	COST	COST	COST	COST	COST		
2.2.5.1 Power and D		Install warning name plates	3	ea	0.50	55	3.00			83	9			92		
2.2.5.1 Power and D		Allowance for flash protection warning signs	1	LS												
2.2.5.1 Power and D		Allowance for misc repairs	1	LS												
2.2.5.1 Power and D		Rmv unterminated conductors	100	ea	2.00	55				11,000				11,000		
2.2.5.1 Power and D		Repair code violation wiring	2,500	If	0.50	55	2.50			68,750	6,250			75,000		
2.2.5.1 Power and D		Replaced damaged switches and breakers	36	ea	0.50	55	12.50			990	450			1,440		
2.2.5.1 Power and D		Add more receptacles	12	ea	0.60	55	6.00			396	72			468		
2.2.5.1 Power and D	istribution	Demo and Rplc Conduit and conductors from maj dist	750	If	0.66	55	20.00			27,225	15,000		4,000	46,225		
2.2.5.1 Power and D	istribution	Demo & Rplc conduit to mtrs/Vibrtng equip	400	If	0.12	55	1.00			2,640	400			3,040		
2.2.5.1 Power and D	istribution	Inst trim around pnl brds	18	ea	1.25	55	12.00			1,238	216			1,454		
2.2.5.1 Power and D	istribution	Remove equip and matls from in front of panel boards	12	ea	1.00	55	0.00			660				660		
2.2.5.1 Power and D	istribution	Rplc pnl brd in Fan Room #2	1	ea	12.00	55	1,000.00			660	1,000			1,660		
2.2.5.1 Power and D	istribution	Eliminate all instances of more than 1 wire to lug	12	ea	3.00	55	300.00			1,980	3,600			5,580		
2.2.5.1 Power and D	istribution	Move alarms to outside doors	8	ea	4.00	55	125.00			1,760	1,000		4,000	6,760		
2.2.5.1 Power and D	istribution	Remove unused snow melting switchgear and cables	16	ea	2.00	55	100.00			1,760	1,600			3,360		
2.2.5.1 Power and D	istribution	Rplc faulty disconnect switches	10	ea	2.50	55	115.00			1,375	1,150		4,000	6,525		
2.2.5.1 Power and D	istribution	Eliminate unused disconnect switches	5	ea	3.00	55				825			·	825		
2.2.5.1 Power and D	Distribution									121.341	30.747		12.000	164.088		
2.2.5.2 Lighting		Demo and replace interior light fixtures	1	job	0.00	55	0.00		50000.00	,			50,000	50,000		
2.2.5.2 Lighting		i i											50,000	50,000		
2.2.5.3 Emergency S	Systems	Demo & Rplc all exit signs with battery operated models	20	ea	2.25	55	200.00			2,475	4,000		·	6,475		
2.2.5.3 Emergency S	Systems	Install Fire alarm annunciator panel	1	iob	0.00	55	0.00		7000.00				7.000	7.000		
2.2.5.3 Emergency S		Rmv & Rplc all pull stations	20	ea	3.25	55	200.00			3,575	4,000			7,575		
2.2.5.3 Emergency S	Systems	Rmv & Rplc all detectors	60	ea	2.00	55	100.00			6,600	6,000			12,600		
2.2.5.3 Emergency S	Systems	Replace Security System	1	job	0.00	55	0.00		70000.00				70,000	70,000		
2.2.5.3 Emergency S	Systems	Add more detectors in key areas	10	ea	1.50	55	100.00			825	1.000		·	1.825		
2.2.5.3 Emergency S		Add more fire alarm horns	10	ea	1.50	55	50.00			825	500			1,325		
2.2.5.3 Emergency S		Relocate fire alarm horns	10	ea	3.00	55				1.650			4.000	5.650		
2.2.5.3 Emergency										15,950	15.500		81,000	112,450		
2.2.5.4.3 Electric Hea		Repair and add controls for roof heat trace system	1	iob					40000.00	,	,		40,000	40.000		
2.2.5.4.3 Electric He				,									40,000	40,000		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>												,500	,000		
Subtotal			0	hrs						469,691	413,993	390	929,877	1,813,951		
Subcontractor OH 8	& Profit		25%										232,469	232,469		
Subtotal			9393.83	hrs						469,691	413,993	390	1,162,346	2,046,421		

General Comments / Clarifications / Assumptions

PROJECT CONSTRUCTION COST TOTAL

Subtotals						469,691	413,993	390	1,162,346	2,046,421
	Contingency	8%				37,575	33,119	31	92,988	163,714
	Freight	10%					41,399			41,399
Subtotal		2,613	hrs			507,267	488,512	421	1,255,334	2,251,534
	General Contractor OH & Profit	25%								562,883
Subtotal		0%	hrs							2,814,417
	Bond	2%								56,288
Grand Total										2,870,705
	 	<u> </u>							SF SF	58,124 49,39

ADDITIONAL FEES AND COSTS

Design Fees								250,000
Plan Reviews								23,700
Special Inspections								29,928
Full Time Inspector								99,800
Furnishings & Equipment								174,600
Art		1.00%						28,707

DESIGN AND CONSTRUCTON COST TOTAL

Total Design and Construction							3,477,441

Appendix C – 10% Concept Design

Not Available

TRANSITION PLAN AND NEEDS ANALYSIS: ALASKA STATE VETERANS HOME

PREPARED FOR:

ASCG INCORPORATED
ANCHORAGE, ALASKA
AND
ALASKA LEGISLATURE
BUDGET & AUDIT COMMITTEE

PREPARED BY:



Juneau • Anchorage

IN ASSOCIATION WITH:



APRIL 2004

In July 2003, the McDowell Group, along with its subcontractors ASCG, Incorporated and Health Dimensions Group analyzed the feasibility of creating a State Veterans Home in Alaska. The report concluded that veteran needs justify a home and that the best location would be the Anchorage/Matanuska-Susitna Valley area. Among the recommendations submitted to the Legislative Audit and Budget Committee of the Alaska State Legislature was that an effective way to care for veterans in Alaska would be to convert the Alaska Pioneers' Home located in Palmer to a State Veterans Home.

This document describes a transition plan for the conversion of the Palmer Pioneers' Home to a State Veterans Home. The Palmer Pioneers' Home is currently licensed as an assisted living facility with a capacity of 82 beds, at three different levels of care. The Palmer Home recently underwent a renovation of one wing. The occupancy was 60 beds or 73 percent as of December 2003. Currently, 17 residents are veterans.

The transition plan reflects a number of provisions, specified by the State of Alaska, that were not addressed in the original feasibility study. Chief among these is a provision that 25 percent of the beds at the converted Palmer Home will continue to be filled from the Pioneers' Home wait list. This requires a relaxation of regulations governing the federal Veterans State Home program and has implications for home occupancy both during and after the transition phase. These issues are discussed in the body of this report.

Current Status

On August 11, 2003, The Commissioner of the Alaska Department of Health and Social Services submitted an application to the Department of Veterans Affairs to convert the Palmer Pioneer's Home to a State Veterans Home. Conversion of the Palmer facility was presented as Option One in the McDowell Group feasibility study. The application was ranked number 72 for FY 2004 federal funding (Priority Group 2).

In January 2004, the Legislative Budget and Audit Committee awarded a contract to ASCG Incorporated to develop the necessary design and transition plans for the Palmer Home conversion. ASCG developed engineering specifications and cost estimates for the project. McDowell Group and Health Dimensions Group developed this transition plan, including a summary of need and projected occupancy during the first five years of operation.

The Alaska State Veterans Home will have the following characteristics:

• All 82 beds of the existing Pioneers' Home will be converted to meet the requirements of a State Veterans Home (SVH). The Department of Veterans Affairs has approved 79 beds for an Alaska state home and has a provision that allows the State to justify the need for the additional three beds.

- Seventy-five percent of the beds (approximately 60) will be reserved for veterans. The remaining 25 percent will be filled from the Pioneers' Home wait list under the same process used to place Alaskans in the other Pioneers' Homes.
- The State Veterans Home will provide three levels of assisted living care that match those provided in the Alaska Pioneers' Homes. Although most care levels will be higher than domiciliary level, the State recognizes that no reimbursements are currently available through the Department of Veterans Affairs for assisted living.

The Interim Final Rule governing grants to states for construction and acquisition of state home facilities defines domiciliary level of care as the following:

Providing shelter, food, and necessary medical care on an ambulatory self care basis. This level of care is defined as more than room and board. It assists eligible Veterans who are suffering from a disability, disease or defect of such a degree that incapacitates veterans from earning a living, but who is not in need of hospitalization or nursing care services. It assists in attaining physical, mental and social well-being through special rehabilitative programs to restore residents to their highest level of functioning.

The Palmer State Veterans Home will receive federal per diem payments for qualified veterans as soon as the renovation is complete and the facility and operations are in compliance with applicable federal regulations. Financial projections for Home operations will be developed separately and are not addressed in this report.

Special Issues in Transitioning the Palmer Home to a State Veterans Home

Since the creation of a State Veterans Home in Palmer involves conversion of an existing facility serving all eligible older Alaskans, there are special issues involved in this transition. The foremost is assurance for existing residents of the Palmer Pioneers' Home that they will be able to remain in the facility for as long as they desire and need the care provided. This transition plan provides that no current resident of the home will be required to move out as a result of the conversion.

In addition, the State of Alaska plans that up to 25 percent of the residents of the Palmer State Veterans Home will be non-veterans selected from the Pioneers' Home wait list. The State has requested this provision because residents of the Matanuska-Susitna Borough have no nearby alternative comparable to the Palmer Pioneers' Home, and other assisted living homes in the area are experiencing occupancy rates approaching 90 percent (Table 4). The provision requires relaxation of current federal regulations, which call for a State Veterans Home to serve at least 75 percent veterans and provide that up to 25 percent of beds may be filled by spouses of veterans or parents, all of whose children died while serving in the armed forces of the United States ("Gold Star" parents). Citation: CFR 51.210 (11) (d). The State's plan for the Palmer State Veterans Home does not address priority for spouses of veterans or Gold Star parents.

Elements of the Transition Plan

The elements of this transition plan are:

- Profile of current Palmer Home residents and the Pioneers' Home wait list
- Analysis of impacts of converting the facility to a State Home under alternative occupancy scenarios
- Review of the need for a State Veterans Home based on analysis developed for the Alaska Veterans Home Feasibility Study, July 2003.

Occupancy of the new State Veterans Home has been calculated as of the month/year when physical conversion of the home is complete and the home begins to receive federal per diem payments as a State Veterans Home. Occupancy analysis is carried forward for a period of five years.

Information Collected

To develop the occupancy scenarios, the following information was collected for all current residents of the Palmer Home:

- Age
- Veteran status
- Length of stay
- Level of care
- Familial proximity
- Residence prior to entry
- Hospice status

The following information was obtained from the active wait List for all Pioneers' Homes:

- Home(s) requested
- Gender
- Residence
- Application date
- Age
- Veterans status

Information was also compiled on the length of stay of all residents who were admitted and subsequently discharged between January 1994 and December 2003. The average length of stay of all residents during this period was 2.8 years or 34 months.

All of these data were analyzed to better understand who uses the Palmer Home, where they resided before admission, and how occupancy would change during transition from a Pioneers' Home to a State Veterans Home.

Profile of Current Residents of the Palmer Home and the Active Wait List from All Homes

As of February 2004, there were 62 Palmer Home residents. Seventeen were veterans. Forty-five were non-veterans. Most Palmer Home residents are from the Matanuska-Susitna region (79 percent). The next largest number of residents is from the Anchorage region.

Table 1
Familial Region of Current Palmer Home Residents
(as of February 2004)

	Vete	ran	Non Ve	teran
Region	Individuals F		Individuals	Percent
Mat-Su	12	70%	37	80%
Anchorage	3	18	6	10
Gulf Coast	1	6	1	5
Interior	1	6	0	0
Outside	0	0	1	5
Total	17	100%	45	100%

The active wait list for all Alaska Pioneers' Homes in February 2004 is summarized in Tables 2 and 3. Key aspects of the list include:

- Individuals on the active wait list (either veteran or non-veteran) are largely from Fairbanks, Juneau or Anchorage.
- There are no residents from the Matanuska-Susitna region on the active wait list.
- The active wait list as a whole contains four people who have indicated a first preference for the Palmer Home.
- The average age of individuals on the active wait list is about 80 years for both veterans and non-veterans.

Table 2
Alaska Pioneers' Homes Active Wait List
Location of Preference for Veterans (as of February 2004)

Region	Palmer	Anchorage	Fairbanks	Juneau	Ketchikan	Sitka	Total
Mat-Su							0
Anchorage	1	2					3
Gulf Coast		1					1
Interior			13				13
Southeast				6		1	7
Unknown			1				1
Total	1	3	14	6	0	1	25

Table 3
Alaska Pioneers' Homes Active Wait List
Location of Preference for Non-Veterans (as of February 2004)

Region	Palmer	Anchorage	Fairbanks	Juneau	Ketchikan	Sitka	Total
Mat-Su							0
Anchorage	2	4		1			7
Gulf Coast		1					1
Interior	1	2	51				54
Southeast		1	4	16	3	1	25
Unknown							0
Total	3	8	55	17	3	1	87

Impact Analysis

Nationally, Alaska is known as a state with high levels of affordable assisted living. It has two programs that pay for assisted living services: The Home and Community Based Services waiver program and the General Relief Fund.

The Palmer Pioneers' Home is licensed as an Assisted Living Facility. The Matanuska-Susitna region has approximately 14 other operational assisted living facilities with a capacity to serve approximately 88 residents. Nearby, the Anchorage region has approximately 590 assisted living beds in 91 facilities. For those needing a higher level of care, there are three licensed nursing homes in Anchorage, but no nursing homes within the Matanuska-Susitna region.

The overall occupancy rate for Matanuska-Susitna assisted living facilities in March 2004 was 88 percent. Facilities range in size from three to 14 beds, with a typical home having about five beds. Because conversion of the Palmer Pioneers' Home would reduce the number of beds available in the area to non-veterans, demand for other assisted living facilities would increase somewhat during the transition period.

Table 4
Occupancy Rates of Matanuska-Susitna Assisted Living Facilities
(as of March 2004)

	•	•		
Name of Facility	# of Beds	# of Occupied Beds	Percent Occupied	Location
Tranquility Manor	5	5	100%	Palmer
Thelma's Loving Care Home	3	2	67	Palmer
Northstar Asst. Living, Inc./Michael's Place	10	9	90	Palmer
Northstar Asst. Living, Inc./The Homestead	5	5	100	Palmer
Creekside Assisted Living	5	5	100	Palmer
Our House	12	12	100	Palmer
Alaskan Treasures	4	3	75	Palmer
Valley Assisted Living	4	3	75	Palmer
Sunrise Manor ALH	5	2	40	Wasilla
Northstar Assisted Living, Inc./Ruthie's Place	14	12	86	Wasilla
LV's Home Care	5	4	80	Wasilla
Angel's Touch	4	3	75	Wasilla
Colony Manor*	7	7	100	Wasilla
Northern Comfort	5	5	100	Wasilla
Total	88	77	88%	

Source: McDowell Group telephone survey, March 2004

¹ State of Alaska records show 19 assisted living facilities in the Matanuska-Susitna Borough. A telephone survey of those facilities by the McDowell Group identified five that are not currently operating.

Assumptions for Occupancy Scenario Analysis

Two transition scenarios were analyzed. The differences between the scenarios reflect alternative assumptions about the number of veterans from Fairbanks and Anchorage who will choose to enter the new State Home. Specifically, the scenarios address alternative rates of entry for veterans who are currently residents of the Anchorage and Fairbanks Pioneers' Homes and for veterans from the active wait list of the Fairbanks Home.

The following general assumptions are used in the scenario analysis and apply to both scenarios below:

- Scenarios cover a five-year period, Year 1 through Year 5, beginning at the point where the facility is officially recognized as a State Veterans Home and begins to receive federal per diem payments for veterans.
- Since no target date has been established for the conversion, occupancy analysis assumes that at the point when the conversion begins, enrollment at the Palmer, Fairbanks and Anchorage Pioneers' Homes will mirror the pattern of enrollment at the most recent period for which data was available, February 2004.
- In both scenarios, the transition is the period during which the proportions of veterans and non-veterans at the Palmer Home are adjusted to reflect the State's criteria that 75 percent of beds are reserved for veterans and 25 percent are available to anyone on the Pioneers' Home active wait list.
- It was assumed that residents of both the current Palmer Pioneers' Home and the new State Veterans Home would experience the historical average length of stay for the Palmer Home. This is 34 months from the date of admission.
- All veterans from the Palmer Pioneers' Home active wait list are assumed to enter the State Veterans Home.

Scenario 1: 25 percent of Veterans on the Active Wait List from Fairbanks and 25 Percent Transfers from Anchorage and Fairbanks.

- Admissions from the active wait list were assumed to include all residents selecting Palmer as their first choice and 25 percent of those selecting Anchorage and Fairbanks. These veterans were phased in over three months.
- It was assumed that 25 percent of veterans currently in the Fairbanks and Anchorage Pioneers' Homes would choose to transfer to Palmer. These veterans were phased in over six months, beginning in January of Year 1.

Scenario 2: 50 percent of Veterans on the Active Wait List from Fairbanks and 50 Percent Transfers from Anchorage and Fairbanks.

Scenario 2 was also presented in the McDowell Group feasibility study of July 2003. This scenario is identical with Scenario 1 except that:

- 50 percent, rather than 25 percent, of the Fairbanks active wait list and veteran residents of Anchorage and Fairbanks are assumed to become Palmer residents.
- Wait list veterans are phased in over six months. Transfers are phased in over 12 months.

Findings of the Occupancy Analysis

The analysis summarized in the table below shows how occupancy of the Palmer Home beds is expected to shift to the proportions sought by the State, namely 75 percent veterans and 25 percent non-veterans. It must be stressed that these projections are, to a degree, theoretical. The precise schedule for accomplishing the shift will depend on the specific resident census at the time the transition begins. Other key factors affecting the transition are:

- The number of veterans now in other Pioneers' Homes who wish to transfer to the new State Home ("Transferring Veterans" in the table below)
- The number of veterans on Pioneers' Home wait lists who decide to choose the new State Home ("Wait List Veterans" in the table)
- The number of veterans who have not yet applied to a Pioneers' Home but who would choose to live in the new State Home ("New Veterans" in the table)

The analysis begins at a theoretical point when the facility is certified as a State Home. The balance of veterans and non-veterans at that time is assumed to mirror the most recent month available, February 2004, with approximately 30 percent veterans and 70 percent non-veterans.

Beds for new veterans will be made available by attrition. Attrition is projected based on the average historical length of stay for the Palmer Pioneers' Home, 34 months. As non-veterans leave, veterans will replace them until 75 percent of beds are filled by veterans. This is projected to occur after approximately 21 months. Once the 75 percent/25 percent equilibrium is reached, both veterans and non-veterans will be admitted, as space allows. Admissions will be monitored to ensure that the number of non-veteran residents does not exceed the 25 percent threshold.

The Summary table below assumes a total facility capacity of 82 beds, with a target of 90 percent occupancy. That is, at any given time, 10 percent of the beds are assumed to be unfilled because of turnover, temporary lulls in demand, repairs, or other causes. Scenario 2 occasionally shows occupancy exceeding 90 percent in order to allow transfers from other Pioneers' Homes to occur as rapidly as possible. In actual operation, this may or may not be feasible, depending on the specific census of residents at the time.

Scenario 2 assumes that nearly all the veterans necessary to reach the 75/25 equilibrium will come from transfers and wait lists. Scenario 1 requires additional recruitment of new veterans beginning in the third quarter of Year 1. The overall number of veterans required under both scenarios is, of course, the same. The facility will require 55 veterans to fill 75 percent of its beds at a 90 percent occupancy rate. This is within the range of demand for the new facility estimated by the feasibility study.

These scenarios assume that availability of rooms during the transition will not be affected by any renovations that may occur.

Table 5a
Occupancy Analysis Years 1 and 2 of Transition to a State Veterans Home
Scenario 1 – 25 Percent of Wait List and Transfers

	Base Year 1			Year 2					
	Feb 2004*	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Veterans already living in the Palmer Home	20*	18	16	15	13	11	9	8	6
Wait List Veterans (ANC, FBKS, PLMR)	0	4	5	5	5	5	5	5	5
Transferring Veterans (ANC, FBKS)	0	6	12	13	13	13	13	13	13
Other New Veterans	0	0	0	2	9	15	22	28	31
Attrition New Veterans	0	0	0	1	1	1	1	2	2
Total Veterans	20	28	33	34	39	43	48	52	53
Non-Veterans already living in the Palmer Home	54*	49	44	40	35	30	25	21	16
New Non-Veterans	0	0	0	0	0	0	0	0	4
Attrition New Non-Veterans	0	0	0	0	0	0	0	0	0
Total Non-Veterans	54	49	44	40	35	30	25	21	20
Non-Veteran %	66%	60%	54%	48%	43%	37%	31%	25%	24%
Total Occupied Beds	74	77	77	74	74	73	74	73	73
Overall Percent Occupancy	90%	94%	94%	90%	90%	89%	90%	89%	89%

^{*} The occupancy rate at the Palmer Pioneers Home in February 2004 was 73 percent. This is lower than normal because some rooms had been held empty for renovation. Figures in the table represent the same proportion of veterans and non-veterans increased to the expected occupancy rate of 90 percent.

Table 5b
Occupancy Analysis Years 1 and 2 of Transition to a State Veterans Home
Scenario 2 – 50 Percent of Wait List and Transfers

	Base	Year 1		Year 2						
	Feb 2004*	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Veterans already living in the Palmer Home	20*	18	16	15	13	11	9	8	6	
Wait List Veterans (ANC, FBKS, PLMR)	0	7	9	9	9	9	9	9	9	
Transferring Veterans (ANC, FBKS)	0	6	12	18	26	27	27	27	27	
Other New Veterans	0	0	0	0	0	0	3	10	13	
Attrition New Veterans	0	0	0	1	1	1	1	2	2	
Total Veterans	20	31	37	41	47	46	47	52	53	
Non-Veterans already living in the Palmer Home	54*	49	44	40	35	30	25	21	16	
New Non-Veterans	0	0	0	0	0	0	0	0	4	
Attrition New Non-Veterans	0	0	0	0	0	0	0	0	0	
Total Non-Veterans	54	49	44	40	35	30	25	21	20	
Non-Veteran %	66%	60%	54%	48%	43%	37%	31%	25%	24%	
Total Occupied Beds	74	80	81	81	82	76	73	73	73	
Overall Percent Occupancy	90%	98%	99%	98%	100%	93%	89%	89%	89%	

^{*} The occupancy rate at the Palmer Pioneers Home in February 2004 was 73 percent. This is lower than normal because some rooms had been held empty for renovation. Figures in the table represent the same proportion of veterans and non-veterans increased to the expected occupancy rate of 90 percent.

Years 3 through 5 of operation show an equilibrium of approximately 75 percent veterans and 25 percent non-veterans at a constant 90 percent occupancy rate. Maintaining this equilibrium depends on attracting new veterans to fill available beds.

Table 6
Occupancy Analysis of Years 3 through 5
after Transition to a State Veterans Home

	Year 3	Year 4	Year 5
Veterans in the Home at start of Yr 1	0	0	0
Non-Veterans in the Home at start of Yr 1	0	0	0
Scenario 1 - 25% Wait List & Transfers			
Wait List Veterans (ANC, FBKS, PLMR)	3	0	0
Transferring Veterans (ANC, FBKS)	13	0	0
Other New Veterans	40	57	57
Attrition New Veterans	(2)	(2)	(2)
Total Veterans	54	55	55
New Non-Veterans	20	20	20
Attrition New Non-Veterans	(1)	(1)	(1)
Total Non-Veterans	19	19	19
Non-Veteran %	24%	24%	24%
Overall Percent Occupancy	90%	91%	91%
Scenario 2 - 50% Wait List & Transfers			
Wait List Veterans (ANC, FBKS, PLMR)	9	0	0
Transferring Veterans (ANC, FBKS)	27	0	0
Other New Veterans	22	56	57
Attrition New Veterans	(2)	(2)	(2)
Total Veterans	56	54	55
New Non-Veterans	20	20	20
Attrition New Non-Veterans	(1)	(1)	(1)
Total Non-Veterans	19	19	19
Non-Veteran %	24%	24%	24%
Overall Percent Occupancy	92%	90%	91%

NEEDS ASSESSMENT FOR AN ALASKA STATE VETERANS HOME

Alaska veterans currently have access to long-term care in the State Pioneers' Homes and in private facilities. However, The *Alaska Veterans Home Feasibility Study* (McDowell/Health Dimensions, 2003) recommended that the state also establish a modest size State Veterans Home in or near Anchorage. This section reviews the reasons for that recommendation.

Alaska Veterans

The feasibility study identified the Anchorage/Matanuska-Susitna region as the most logical location for a State Veterans Home. A little more than half (38,000 of 70,000) of Alaska's veterans live in the Anchorage or Matanuska-Susitna Boroughs. The same proportions hold true of Alaska veterans over age 65, with approximately 6,500 of the state's 12,800 older veterans living in the Anchorage/Matanuska-Susitna area.

While the overall number of Alaska veterans is projected to decline to approximately 50,000 by the year 2020, the percent of veterans over age 65 will double – from 20 percent to 40 percent – during the same period. By 2020, the number of Alaska veterans over 65 is projected to increase to approximately 20,000. Most veterans will neither require nor choose care at a centralized Veterans Home. However, the Alaska Veterans Home Feasibility Study concluded that there is enough demand to support a modestly-sized State Home in the Anchorage/Matanuska-Susitna area. The report also concluded that creating a State Home in this region would enhance the options currently available to many, though not all, Alaska veterans.

Table 7
Veterans Over Age 65,
By Region and Percent of Total

	2000	2005	2010	2015	2020
Anchorage/Mat-Su Region	6,396	6,701	8,161	10,336	10,588
% of all veterans	9%	10%	14%	19%	21%
Interior Region	1,720	1,830	2,167	2,731	2,765
% of all veterans	2%	3%	4%	5%	5%
Northern Region	293	278	309	385	388
% of all veterans	0%	0%	1%	1%	1%
Gulf Coast Region	1,815	1,893	2,271	2,859	2,933
% of all veterans	3%	3%	4%	5%	6%
Southeast Region	1,818	1,961	2,289	2,944	2,991
% of all veterans	3%	3%	4%	5%	6%
Southwest Region	340	355	406	520	523
% of all veterans	0%	1%	1%	1%	1%
Total Veterans Over 65	12,382	13,018	15,603	19,775	20,188
Total All Veterans	70,646	65,093	60,336	55,531	50,662
Percent Over 65	18%	20%	26%	36%	40%

Source: Dept of Veterans Affairs, Health Dimensions Group

Existing Services

Currently, there are 733 nursing home beds and approximately 2,000 private assisted living home beds in Alaska. The State Pioneers' Homes add an additional 600 assisted living beds.

Of the nursing home beds, 314 are located in Anchorage. The occupancy rate of the Anchorage nursing home beds is typically 95 percent. There are no nursing home beds located in the Matanuska-Susitna Borough and no known plans to develop any in the immediate future.

Of the private assisted-living-home beds, approximately 600 are located in Anchorage, 100 in the Matanuska-Susitna Borough and another 100 in the Fairbanks area. The number of private assisted living beds has been increasing slowly (3 to 5 percent per year). The occupancy rate for private assisted living homes is not known. The Fairbanks Pioneers' Home has 97 beds, the Palmer Home 82 beds, and the

Anchorage Home 225 beds. Occupancy rates at these three State-owned facilities over the past two years have been approximately 90 percent, 73 percent,² and 70 percent respectively.

Alaska Veteran Care Preferences

A survey conducted as part of the *Alaska Veterans Home Feasibility Study* indicated that 15 to 20 percent of Alaska veterans think of a State Veterans Home as their first choice for long-term care. The remaining 80 percent say their long-term care preferences are primarily based on other considerations, such as being close to friends and family and quality of care. According to the survey, Alaska veterans, like most other Alaskans, will choose to remain at home rather than receive care in an institutional setting.

Demand Estimates

The feasibility study concluded that any new veterans care facility would derive demand primarily from the nearby population. The study identified the Anchorage/Matanuska-Susitna region as the best location. The study concluded that demand statewide by 2015³ will warrant 55 to 65 additional nursing home beds and 65 to 75 additional assisted living beds to serve veterans. Approximately half this demand is located in the Anchorage/Matanuska-Susitna area. To arrive at these estimates, the feasibility study used measures of historical demand together with indications of veterans needs and preferences as expressed in the survey.

Two historical percentages form the starting point for estimating the number of beds needed to serve veterans. First, the VA has established a "reliance factor" of 11.5 percent for veterans. This means that, historically, 11.5 percent of veterans have received care in State Veterans Homes. Second, market capture rates for the nursing home industry as a whole are typically 10 to 20 percent in locations where a facility is the sole provider of services targeted at a particular population, such as Alaska veterans.

The feasibility study calculated that gross demand by veterans for nursing home beds in 2015 in the Anchorage/Matanuska-Susitna area would be approximately 250. Applying the reliance factor suggests that a State Veterans Home there would need approximately 30 nursing beds. Using the market capture rates indicates demand of 25 to 50 beds.

Demand for assisted living beds in the Anchorage/Matanuska-Susitna area was also estimated. The estimates were based on historical utilization of assisted living beds by veterans and by the general public. Estimates were adjusted for income, since most demand for assisted living services in a State Home would be from veterans who, at the time of service, are lower income. Market capture rates were then applied. Market capture of assisted living facilities over other housing options is typically about 10 percent. This process results in an estimated demand for assisted

Alaska State Veterans Home Transition Plan and Needs Analysis

² 22 beds at the Palmer Pioneers' Home have been out of service until recently due to building renovations.

³ The year 2015 was chosen as a reasonable reference year for planning a facility that will be constructed in the next one to three years. Demand for veterans long-term care is expected to grow somewhat beyond 2025 and then begin to decline.

living beds by veterans in the Anchorage/Matanuska-Susitna area of 60 beds in 2015.

Several factors warrant retaining the full 82 rooms currently in the Palmer Pioneers' Home after the home is converted to a State Veterans Home. First, the high levels of care available at the Palmer Home and other Pioneers' Homes mean that these homes typically serve clients who elsewhere might be classified as needing nursing home care. Second, the Palmer Home would be the only State Veterans Home in Alaska. It is likely to attract some residents from outside the immediate area, especially when considering that a large percentage of Alaskans around the state have family and/or friends in the Anchorage/Matanuska-Susitna area. Third, Alaska's elderly population is one of the fastest growing in the country. Between 2015 and 2020 the number of Alaska veterans 75 or older is projected to grow from 5,900 to 7,400.⁴ Fourth, the occupancy rate of other assisted living facilities in the Matanuska-Susitna area is relatively high, 88 percent as of March 2004.

Levels of Care at the Alaska State Veterans and Pioneers' Home

The Palmer Veterans and Pioneers' Home will provide the same levels of care as other Pioneers' Homes. According to the State of Alaska, the level of care for all veterans will meet the domiciliary level of care as described in the *Guide for Inspection of State Veterans Homes: Domiciliary Care Standards.* The general provisions of the Pioneers' Home care levels are currently.⁵

Level I – provision of housing, meals, emergency assistance and opportunities for recreation.

Level II – provision of housing, meals, emergency assistance and certain other assisted living services that may include assistance with activities of daily living, medication administration, recreation, and other health-related services. Residents at this service level will provide the majority of the activities and are independent in performing activities of daily living and capable of self-supervision during the night shift.

Level III – similar to Level II except that staff will perform the majority of the activities and assistance is available 24 hours per day. Citation: 2AAC 41.990 (As of July 1, 2004, the relevant citation will be 7AAC 74,010, see Addendum A of this report)

While the new facility will not be a nursing home, experience throughout the Alaska Pioneers' Home system has shown that the three levels of care above will meet the needs of most Alaska veterans. Veterans whose needs dictate a move to, or temporary stay in, a licensed nursing home will be accommodated by existing nursing homes in the Anchorage area. Table 8 shows how the Department of Veterans Affairs definition of domiciliary care compares with the admission standards for the Alaska Pioneers' Homes.

Alaska State Veterans Home Transition Plan and Needs Analysis

⁴ Alaska State Veterans Home Feasibility Study, 2003. Page 18.

⁵ As of July 1, 2004, the definitions of levels of care will change somewhat and will be found under a different citation: 7AAC 74.010 (See Addendum A for the new language.)

Table 8

Comparison of the Veterans Administration Definition of Domiciliary Care and the Alaska

Administrative Code Criteria for Admission to a Pioneers' Home

38 CFR, part 59.2 Definitions

Domiciliary care means providing shelter, food, and necessary medical care on an ambulatory self-care basis (this is more than normal room and board). It assists eligible veterans who are suffering from a disability, disease, or defect of such a degree that incapacitates veterans from earning a living, but who are not in need of hospitalization or nursing care services. It assists in attaining physical, mental, and social well being through special rehabilitative programs to restore residents to their highest level of functioning.

2 AAC 41.010 Standards for Admission

- (a) An applicant is eligible for admission to a Pioneers' Home on a space-available basis if the applicant
- (1) is a resident of the state under 2 AAC 41.020
- (2) has been a resident of the state continuously for at least one year preceding application and maintains residency during in the state while on any waiting list
- (3) is in need of the aid, benefit, or safety of a Pioneers' Home because of a cognitive impairment or other disability related to Alzheimer's disease or a similar cognitive impairment or other disability if the person is unable to maintain a household without regular assistance with activities of daily living.

New Language Defining Levels of Care at Alaska Pioneers' Homes Effective July 1, 2004

- 7 AAC 74.010. Quality and levels of service. (a) A Pioneers' Home will provide a safe and sanitary environment. Each resident will be treated with consideration and respect for personal dignity, individuality, and the need for privacy. Individual services that will be provided to each resident will be determined by a lifestyle assessment and will be further specified in each resident's assisted living plan. The service levels provided at each home, depending upon the availability of financing, facilities, and staff, are as follows:
- (1) Level I services, which include the provision of housing, meals, emergency assistance, and opportunities for recreation; level I services do not include staff assistance with activities of daily living, medication administration, or health services, although the Pioneers' Home pharmacy may supply the resident's prescribed medications;
- (2) Level II services, which include the provision of housing, meals, emergency assistance, and, as stated in the resident's assisted living plan, staff assistance, including assistance with activities of daily living, medication administration, recreation, and health-related services; assistance provided by a staff member includes supervision, cueing, or hands-on assistance, with the resident performing the majority of the effort; during the night shift, the resident is independent in performing activities of daily living and capable of self-supervision;
- (3) Level III services, which include the provision of housing, meals, emergency assistance, and, as stated in the resident's assisted living plan, staff assistance, including assistance with activities of daily living, medication administration, recreation, and health-related services; assistance provided by a staff member includes hands-on assistance, with the staff member performing the majority of the effort; the resident may receive assistance throughout a 24-hour day.